

**Election integrity:
Our protection against election error and fraud**



Election integrity is like a dam.

It is our protection against election error and fraud.

Remote voting is like walking below a crack in the dam.

***2016 Primary Elections – Boulder County, Colorado
Canvass Report – Methods, Findings, Recommendations
Colorado Voter Group, Al@alkohwicz.net***

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INTRODUCTION

Colorado's election system is being hyped nationally by the Colorado Department of State as the way of the future. This promotion may be premature.

This report exposes apparent flaws in Colorado's election system. Election records from the Boulder County 2016 Primary Election reveal hundreds, or even thousands, of likely flaws that escaped detection by the system. If these flaws stand up under further investigation, then ineligible votes were counted and eligible votes were not. If true, it is possible that a declared winning contestant was actually a loser.

The significance of a flaw must not be casually assessed. A common error on the part of administrators, and the public, is to assume that there is nothing to worry about if the difference in votes between the first- and second-place candidates in a contest is not close. This can be a false assumption. The detection of a flaw can only indicate that "something" is not working. It does not indicate the significance of a defect. For example, if it is discovered that one vote was awarded to the wrong candidate, it might be assumed that this one vote could not change the election result, and therefore the error could be safely ignored. However, detailed investigation might reveal that an election configuration error caused every vote to be awarded to the wrong candidate. With the cursory discovery of a flaw, one can only know that the system does not work – is not trustworthy.

Verifying one step of a multistep process is not conclusive. Another common administrative error is the assumption that the election results are correct if the votes on the ballots are correctly interpreted and counted. Colorado's election system is nearly defenseless against what happens to ballots before the votes on the ballots are interpreted and counted. Colorado's system does not know, or even seriously attempt to know, how many ballots never made it, or never should have made it, or were modified before making it to the stage of interpreting and counting votes.

The analysis and conclusions reached in this report are based on the author's educated assumptions about the system and data. Actual specifications were not available to the canvass board or the public. The Colorado election system dangerously assumes that elections belong to the government, rather than the people. The people conduct elections to choose government.

If these flaws stand up, the Colorado election system is fatally flawed and should be temporarily withdrawn from use. These flaws are symptoms; they are not root-cause problem statements. Their effect may be far greater than that exposed by this cursory analysis. They must be addressed before using this system for another live election. No winner is better than the wrong winner.

This report focuses on the canvass. This happens near the end of the election. There are many more election system components that require in-depth investigation and verification.

The Colorado election system is complex. Some election processes are never-ending, such as the registration of electors. Some are periodic, such as the process of voting. Some occur before the voting period, such as candidate qualification. Some occur after the voting period, such as audits, canvass, recounts, certification of results, and challenges.

With such complexity there must be tight specifications of: requirements (must vs. want), standards, governance, quality management, data, and functional processes that create complete and verifiable data and logs.

Unfortunately, no tight Colorado Department of State specifications are available to control the so-called "Colorado election system."

CHAPTER - OVERVIEW OF CERTAIN COLORADO ELECTION PROCESSES

Traditionally, voting has been conducted in neighborhood precincts, supervised and conducted by political party-appointed electors from the neighborhood, and open to the public for poll watching, challenge, and participation in the resolution of problems.

The voting and counting processes were performed in a secure facility that was protected from electioneering. Strict attention was paid to security, elector eligibility, ballot chain of custody, transparency, opposing-party judges, anonymous votes, and accuracy at each step.

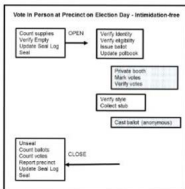
The so-called *modernized* election system has eliminated most of the protections of the traditional election system.

- **Every ineligible vote counted or eligible vote miscounted disenfranchises an eligible elector and overrides that elector's vote.**
- **It is UNKNOWN whether the ballot sent to a remote elector actually got to the elector, or whether the ballot cast by an elector actually arrived into the custody of election officials. Was it lost, delayed, stolen?**

In the following two charts, compare the Traditional Voting processes against the Modernized Voting processes. Pay special attention to the chain of custody, election records created, verifiability, and transparency. The following should occur in all election systems:

1. When and where does each process take place?
2. What are the opportunities for poll watching?
3. Elector Identity – is this person who they claim to be?
4. Elector Eligibility – does this person meet the voting and contest requirements?
5. Issue ballot – is there a pollbook record of who got what ballot?
6. In private voting booth: mark and verify votes.
7. Judge verifies that ballot style is correct, then removes and retains ballot stub.
8. Voter casts anonymous ballot into secure ballot box.
9. Close of polls – voter count, ballot shuffle, cast ballot count, interpretation and count of votes. Judges' report. Publicly post results.

Traditional Voting – Paper Ballot In-Person at Precinct on Election Day.



In-Person Voting at Precinct

This century-old method of voting evolved to achieve maximum election security, accuracy, and transparency.

See Douglas Jones, PhD, <http://hcnepage.cs.uiowa.edu/~jones/voting/pictures/>

"The first use of paper ballots to conduct an election appears to have been in Rome in 139 BCE, and the first use of paper ballots in the United States was in 1629 to select a pastor for the Salem Church."

The chain of custody of ballots is tight from the delivery of ballots to officials through the counting of votes and the transfer of cast ballots and election records from the precinct to the central site.

To cheat would be very risky because there are witnesses at every step.

Modernized Voting – Remote Voting

Process ID	Process Description	Process Output	Next PID
1	REQUEST Ballot (Batch, On Demand)	Item Voter Ballot Method Time -----	2
2	SENT Mail Ballot Packet (Remote, In Person)	Item Voter MBP Method Time -----	3
3			4 5 6
4	RECEIVED MBP (Undeliverable USPS)	Item Voter Packet Method Time -----	??
5	NOT RECEIVED (lost, stolen, delayed, not cast, undeliverable not returned)	Item Voter Envelope Method Time ----- ----- -----	??
6	RECEIVED Ballot Return Envelope Verify: Identity, Eligibility, Style	Item Voter BRE Method Decision Time -----	7
7	ACCEPTED Ballot (Shuffle, duplicate for anonymity, batch)	Item Ballot Method Decision Time -----	8
8	RESOLVED to Cast Vote Record	Item CVR Contest Method Time -----	9
9	COUNTED Votes	Item Contest Contestant Winner Time -----	

Remote voting

Colorado's remote-voting election system has sacrificed election security, accuracy, and transparency in favor of a system designed to maximize voter participation. Colorado's "modernized" system has

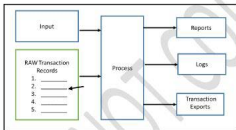
1. eliminated the ballot chain-of-custody protocols,
2. essentially eliminated voter identity and eligibility tests in favor of allowing anybody to vote, and
3. replaced the traditional system without first designing, testing, and certifying a complete remote voting system.

Election laws and the rules have not overcome the realities of distance and time. This chart does not include Fax, Email, Online, and In-Person voting.

System Assumptions

The canvass board and the author did not have the benefit of election system documentation. All election records, all data and reports, and all documentation should be made available to the canvass board on demand. It was necessary to assume that each system process is initiated by an INPUT and produces four outputs: OUTPUTS (files and reports), LOGS (administrative and security), EXPORTS, and RAW TRANSACTION RECORDS. The canvass board should receive exported electronic copies of all of these items. For example, the RETURNED Ballot process creates a RAW Transaction file detailing information about the ballot return envelope, the voter, where and when the ballot return envelope was returned, and who returned the ballot.

The canvass board must be given the list of all data files and reports created/modified/used during the election. It must show the formal name and a brief functional description of each item.



Registration System

The Colorado election system is built around a computerized system called SCORE. The canvass board does not have access to the specifications of this system, so members must make assumptions about the data, reports, and timing of updates. The collection of election registration records is maintained in a file, VR-011. See Appendix 1.

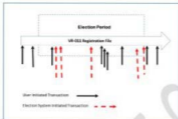
It is assumed that (1) transactions applied to the VR-011 file are kept in a time-stamped, secure Transaction Log file and (2) all security and administrative actions are logged.

Some of the transactions originate with an elector request (form) or action (online). Some of the transactions originate as a result the system itself. One would need to specify an 'as of' time and date to determine an individual voter's Party, Precinct_code, Voter_status, and Ballot_style, and the number of Registered electors, Eligible electors, Active electors, and Inactive electors. SCORE might not have this capability.

It appears that SCORE permits user-requested and/or system-initiated live ADD/CHANGE/DELETE updates before, after, and during the entire election cycle. The timing of these updates with respect to the access of the records by election system components is not known, but appears not to be synchronized for transaction coherency.

It appears that updates are also initiated automatically by the system and/or by the administrator, but when these occur is not known to the canvass board. For example, a ballot packet that is returned by USPS as UNDELIVERABLE may provoke a change to the VOTER_STATUS from Active to Inactive. When voter status is changed and how the change is reflected in the data provided to the canvas board is not specified. Is it reflected in the VR-011 file provided to the board, or not?

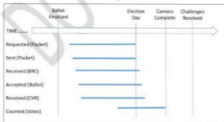
See the following diagram. What is the official election record of VOTER_STATUS for this election? Was it the VOTER_STATUS when the ballot was finalized? When the request was made to the printer? At 7 PM on Election Day? When the canvass is complete? When?



Ballot tracking system

The Colorado election system uses a chain-of-custody system for ballots called CE-068 Voters_with_Ballots_List. CE-068 summarizes the first four of the six transaction processes (see Appendix 1):

- Request (Ballot Packet)
- Sent (Ballot Packet)
- Received (BRE)
- Accepted (Ballot)
- Resolved (CVR)
- Counted (Votes)



Vote Interpretation and Counting System

After accepted mail ballots have been removed from their Ballot Return Envelopes and it has been verified that the ballot enclosed is of the correct style, and it has been determined that there are no identifying marks on the ballot (and removed by duplicating the ballot if these marks exist), the ballots are shuffled, and perhaps sorted into batches that are secured. Email, fax, DRE, and online ballots are duplicated onto paper ballots, and they, together with the In-Person ballots are combined with the mail ballots.

The paper ballots are scanned and saved as ballot images, and a combination of machines and humans interpret the votes. For each scanned ballot, software creates an electronic record, called a Cast Vote Record, that contains the data related to the interpreted votes. The votes on the cast vote records are tabulated and the results are based on the data in the cast vote records.

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CHAPTER - OVERVIEW OF THE COLORADO CANVASS

Structural Issues

Canvass board duties, while documented in statute and rule, are not interpreted consistently. See Appendix 2. Election officials appear to believe that the canvass board exists to rubber-stamp a nonspecific certification document:

2016 Primary Elections Canvass

We the Canvass Board certify the election results for all thirty 2016 Primary election contests held in Boulder County.

Democratic Member 1
 Democratic Member 2
 Republican Member 1
 Republican Member 2
 Democratic County Clerk

Certification Document

Integrity

Some canvass board members, before signing this nonspecific document, want to first inspect the election records to verify for themselves that the details support the summaries. These members consider that they have met their duty only after they have complied with CRS 1-10-101.5(1), which specifies canvass board duties, and election rule 10, which specifies canvass board requirements and restrictions (if any) that must be met in order to comply with the statutes (see Appendix 2). The method used by a member to verify the numbers is not prescribed or restricted. This flexibility encourages innovation and increases the likelihood of discovering any error.

It is an error that the county clerk has an equal role on the canvass board. The clerk has an obvious conflict of interest, and has disproportionate power to control the agenda and the materials used by the board. The law should review this situation.

Specifications

The canvass board is not provided with a copy of the detailed specifications for the data, files, and forms created as election records. The canvass board is not even provided a list that identifies and describes each election record created for/by this election. It is **not possible for the canvass board to even plan or discuss their work in advance.**

Terminology used in the reports is confusing at best. For example, the term "election" may refer to all of the election activities that take place over the course of a year, OR the 2016 Republican Primary Election in its entirety, OR the 2016 Republican US Senate Primary, OR all of the above. CRS 1-10-101.5(1)(a) does not help. Nor do rules 10.3 through 10.6. (See Appendix 2.)

Another terminology example: does "registered electors in the precinct" refer to those who are eligible to vote in the contest (which would include both active and inactive registrants that are affiliated with a particular party and have passed the 22-day waiting period, etc.) or all of the precinct's registrants no matter their eligibility to vote in the contest?

Data

Perhaps in other counties, but definitely in Boulder County, the clerk does not provide the canvass board with copies of the actual (raw) election data. Instead the clerk provides reports that are often summaries of the raw data. These reports do not provide sufficient detail to make an honest reconciliation and certification.

For example, PDF report "BP-009 Mail Ballot Returns" does not differentiate between Republican and Democratic returned ballots, even though these ballots are not interchangeable. "38,099 ballots returned" does not help to reconcile the number of "2016 Republican US Senate ballots returned" to the number of "2016 Republican US Senate ballots counted." Nor does this summary report differentiate between precincts and/or styles, yet these too are not interchangeable.

The canvass board needs the raw data, provided in importable EXCEL or CSV formatted files, showing which voter's ballot was received at what time at what place by whom and from what source. In conjunction with a similar file of issued ballots, the board should be able to determine the ballot's style and whether the returned ballot was undeliverable, voted in person at a VSFC, returned by email, etc.

In addition, the canvass board needs to have copies of the logs associated with the raw data showing who added/changed/deleted data and when. And if there are ways that the actual election data can be overwritten "by hand," these need to be identified to the board.

Illustrated Data Problems

The files provided to the canvass board are not necessarily complete and accurate. For example, the clerk says that the registration file VR-011 does not contain surrogate records for 205 redacted "confidential voter" registrants and the ballot tracking file CE-068 does not contain surrogate records for 73 redacted "confidential voter" ballots. Hence, the board cannot verify the number of registered electors, eligible electors, and voters for each contest or even by precinct/style.

The data files may be inconsistent. Some records have been changed before, during, or after election day. The clerk reported that 13 registration records were updated after 7 PM on election day. How is a SCORE transaction reconciled when an elector who is eligible to vote in "2016 Republican Congressional District 2" on the day that ballots are chosen for issuance has moved to Congressional District 4 by election day? Is the issued ballot voided? Is the cast vote record voided? Does the registration file show the elector in CD-4 and the Statement of Votes show the vote in CD-2? Does the system protect itself against this possibility?

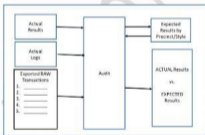
In order to protect voter confidentiality, the election official creates another data problem by merging small sets of ballots that are about to have their votes counted. These votes are reported as a set, but they might include ballots with different precincts/styles (e.g., CD2 and CD4 are summed). This procedure eliminates the possibility for (1) actually producing a report by precinct/style and (2) reconciling the voters, ballots, and votes by precinct/style for each of those precincts so merged.

List of files provided to Boulder County Canvass Board on DVD

Name	Type	Compressed size	Revised p.	Size	Ratio	Date modified
1st Floor Summary	Adobe Acrobat Document	161 KB	No	171 KB	4%	5/6/2016 4:26 PM
2nd Floor Summary	Adobe Acrobat Document	179 KB	No	191 KB	7%	5/6/2016 4:26 PM
2016 Primary Reconciliation Report - Final	Adobe Acrobat Document	182 KB	No	201 KB	10%	5/6/2016 12:16 PM
2016 Primary - Data File Notes	Microsoft Word Document	892 KB	No	1,219 KB	19%	2/8/2016 4:33 AM
EP-006 Ballot Batch	Adobe Acrobat Document	33 KB	No	35 KB	9%	7/7/2016 8:53 AM
EP-026 Mail Ballot Returns	Adobe Acrobat Document	28 KB	No	30 KB	7%	7/7/2016 8:56 AM
EP-029 Mail Ballot Reconciliation Report	Adobe Acrobat Document	28 KB	No	30 KB	7%	7/7/2016 8:57 AM
EP-032 Provisional Ballot Statistics	Adobe Acrobat Document	25 KB	No	27 KB	9%	7/7/2016 8:59 AM
CI-040 Voters, With_Ballots_List_Public_2016_800099513	Text Document	6,467 KB	No	30,944 KB	30%	7/7/2016 8:25 AM
Post-Election Audit Process	Adobe Acrobat Document	525 KB	No	549 KB	10%	5/6/2016 1:58 PM
Post-Election Audit Results Comparison	Adobe Acrobat Document	171 KB	No	190 KB	11%	5/6/2016 4:13 PM
Results_Cumulative_Final_Primary	Adobe Acrobat Document	72 KB	No	77 KB	9%	5/7/2016 1:38 PM
Scan Room Summary	Adobe Acrobat Document	71 KB	No	75 KB	11%	5/6/2016 9:56 AM
SON_Results_Consolidated_Final	Adobe Acrobat Document	1,580 KB	No	1,828 KB	19%	7/6/2016 12:02 PM
SON_Results_Consolidated_Final	Microsoft Excel 97-2003 ..	183 KB	No	239 KB	19%	7/6/2016 12:08 PM
VR-015	Microsoft Excel Worksheet	57,867 KB	No	39,034 KB	2%	7/7/2016 5:48 PM
vcp_StatementOfBallots_BpOnByDay	Adobe Acrobat Document	182 KB	No	200 KB	4%	6/25/2016 6:22 AM
vcp_StatementOfBallots_Summary	Adobe Acrobat Document	180 KB	No	187 KB	4%	5/6/2016 2:16 PM

One approach to canvassing

To reduce the risk of insider manipulation, the approach to be taken by the canvass board is best kept from the officials. One approach available to the canvass is represented in the following diagram. It involves (1) programmatically inspecting the ACTUAL RESULTS, LOGS, and RAW TRANSACTIONS, (2) producing a set of EXPECTED RESULTS, and (3) reporting the differences between the ACTUAL and EXPECTED.



To accomplish its duties, a canvass board member might wish to summarize the clerk-provided raw election data as illustrated in the three figures below. (NOTE: this is not a request for the clerk to create new reports.) The board must be provided with the information needed to associate the raw election data with the relevant fields in the illustrations. To avoid wasted time, the board must be provided with the raw data in a form that is readily imported into ACCESS or EXCEL.

Ballot Styles

In Boulder County the clerk did not provide the canvass board with a list of ballot styles and a key for decoding the styles. For this report, therefore, the author synthesized a "ballot style" based on the Party and Precinct_code in the VR-011, CE-068, and SOV files. The synthesized styles are "party-county-districts. For example: R-07-21810. Non-Democratic/Republican parties are coded as "X." After this analysis was well under way, the clerk provided a file of blank ballot images, and the author created the following table to translate between the style used in the report and the official style used in the election.

Democratic Ballot Styles		Republican Ballot Styles	
Style used in report	Style used in election	Style used in report	Style used in election
D-07-21813	DS-19D	R-07-21813	DS-22R
D-07-21833	DS-17D	R-07-21833	DS-20R
D-07-21712	DS-04D	R-07-21712	DS-08R
D-07-21733	DS-09D	R-07-21733	DS-11R
D-07-21810	DS-01D	R-07-21810	DS-10R
D-07-21811	DS-03D	R-07-21811	DS-07R
D-07-21812	DS-12D	R-07-21812	DS-15R
D-07-21813	DS-02D	R-07-21813	DS-13R
D-07-41711	DS-06D	R-07-41711	DS-06R
D-07-41712	DS-14D	R-07-41712	DS-16R
D-07-41811	DS-21D	R-07-41811	DS-18R

A portion of a supporting table to associate precincts (PCT) and styles follows:

PCT	PRECINCT_CODE	PARTIAL_STYLE	DS-01D	DS-02D	DS-03D	DS-04D	DS-05D	DS-06R	DS-07R	DS-08R	DS-09D	DS-10R	DS-11R	DS-12D	DS-13R	DS-14D	DS-15R	DS-16R	DS-17D	DS-18R	DS-19D	DS-20R	DS-21D	DS-22R		
100	2181007100	07_21810																								
101	2182007101	07_21820																								
102	2161007102	07_21610																								
103	2161007103	07_21610																								
104	218002104	09_21800																								
105	216007105	07_21600																								
106	2161007106	07_21610																								
107	2161007107	07_21610																								
200	217007200	07_21700																								
201	2171007201	07_21710																								
202	2171007202	07_21710																								
203	2171007203	07_21710																								
204	2171007204	07_21710																								

Consistency checking

To perform due diligence, canvass board members might test the consistency of the raw data by producing the board's own summaries to reconcile against the reports provided by the clerk. Several types of errors can be detected by using this approach, including missing items, duplicate items, mismatched precinct/style, compensating errors, etc. See the following tables: Contest Summary, Contest Ballots by Style, and Contest Results by Style.

Contest	Eligible Elector	Vote/Of Record	Ballot Issued	Ballot Cast	Ballot Received	Ballot Rejected	Ballot Accepted	Ballot Counted	Vote Counted
United States Senator									
US Congressional District 2									
US Congressional District 4									
CU Regent - At Large									
CU Regent - Congressional District 4									
State Senator - District 17									
State Senator - District 38									
State Representative - District 10									
State Representative - District 11									
State Representative - District 12									
State Representative - District 13									
State Representative - District 33									
District Attorney - 20th Judicial District									
County Commissioner - District 1									
County Commissioner - District 2									

2016 Republican Primary Election

Election Summary

Ballot Style	Eligible Elector	Ballot Issued	Ballot Cast	Ballot Received	Ballot Rejected	Ballot Accepted	Ballot Counted	Vote Counted
TOTAL								
R_07_21613								
R_07_21633								
R_07_21712								
R_07_21733								
R_07_21810								
R_07_21811								
R_07_21812								
R_07_21813								
R_07_41711								
R_07_41712								
R_07_41811								
X_07_21613								
X_07_21633								

2016 Republican Primary Election

Contest Ballots by Style

Ballot Style	Ballot Accepted	Ballot Counted	Vote Counted	Over Vote	Under Vote	Contestant 1	Contestant 2
TOTAL							
R_07_21613							
R_07_21633							
R_07_21712							
R_07_21733							
R_07_21810							
R_07_21811							
R_07_21812							
R_07_21813							
R_07_41711							
R_07_41712							
R_07_41811							
X_07_21613							
X_07_21633							

2016 Republican Primary Election

Contest Results by Style

CHAPTER - PRELIMINARY INSPECTION OF THE DATA PROVIDED TO THE CANVASS BOARD

Page 9 contains a list of the data files provided to the canvass board at 5 PM on Friday, July 8, 2016. Of the 18 files, three are in an importable format. These three files were imported into Access: VR-011 Voter Registration, CE-068 Voters With Ballots List, and SOV Results Consolidated. Two additional files were extracted from the tables in the 2016 Primary Reconciliation Report: Sent Ballot Summary; Received Ballot Summary. The Vendor Batches report was also inspected.

VR-011 Voter Registration

Each registration record was supplemented with a synthesized "ballot style" based on the Party and Precinct_code in the VR-011 file – see Appendix 1. (The clerk should, but does not, provide the ballot style for each elector.) The style identifiers are composed from the party-county-districts in the record. For example: R-07-21810. Non-Democratic/Republican parties are coded as "X." The following queries (presented in logical rather than numerical order) were created and executed.

Query_1 reports that VR-011 contains the following registrants by party.

QUESTION:

- Do these Active voters include **inactive** voters who requested a ballot in the 2016 Primary?

PARTY	Total Of VOTER_ID	Active	Active 20 Day Period	Active Failed to Vote	Inactive NCOA	Inactive Returned Mail	Inactive Undeliverable Ballot
ACN	297	167		49	6	17	58
DEM	107605	81448	361	7505	1809	8181	8301
GRN	1307	673	6	111	45	230	242
LBR	2589	1465	12	296	88	207	521
REP	44770	31945	81	3541	827	4797	3579
UAF	93905	53977	430	11959	2335	13227	11977
UNI	21	15	1	2		1	2
	250494	169690	891	23463	5110	26660	24680

Query_a reports the number of Republican and Democratic registrants by style.

QUESTIONS:

- Which registrants are registered electors?
- Which registrants are eligible electors?
- In which cells are each of the 205 confidential voters?
- Which 20DayPeriod and FailedToVote registrants are sent unsolicited ballots?
- Do the Inactive categories and the Active FailedToVote category reflect the current election? The state prior to the current election? Or when?
- Does the Voter Status represent the status before, during, or after election day?
- What about pending registrations?

STYLE	Total Of VOTER_ID	Active	Active 20 Day Period	Active Failed to Vote	Inactive NCOA	Inactive Returned Mail	Inactive Undeliverable Ballot
D_07_21613	769	616	1	62	6	51	35
D_07_21633	3175	2281	11	288	78	286	231
D_07_21712	16640	13658	54	1168	199	875	999
D_07_21733	2658	2124	3	227	36	114	102
D_07_21810	33298	24159	131	1780	688	1139	1401
D_07_21811	4994	4162	13	355	50	209	205
D_07_21812	1870	1595	4	141	23	61	48
D_07_21813	22148	16258	75	1140	418	2111	2131
D_07_41711	15779	11491	49	1575	221	990	953
D_07_41712	6419	4810	23	717	91	391	387
D_07_41811	301	306	2	32		16	9
Democratic	107605	83448	361	7505	1809	8181	8301
R_07_21613	249	183		17	7	24	18
R_07_21633	2239	1500	3	216	53	331	136
R_07_21712	6727	5106	15	525	124	611	346
R_07_21733	2247	1753	5	207	41	152	85
R_07_21810	7724	4734	13	506	130	1187	1151
R_07_21811	2863	2290	3	211	46	173	141
R_07_21812	1131	932	2	84	13	70	31
R_07_21813	4312	2735	5	317	74	776	805
R_07_41711	11282	8333	28	999	238	1019	574
R_07_41712	5081	3841	6	423	58	419	274
R_07_41811	626	534		57	6	35	14
Republican	44770	31945	81	3541	627	4397	3579
X_07_21613	600	364	1	98	14	77	46
X_07_21633	3967	2386	18	517	115	487	396
X_07_21712	14633	9290	56	1949	294	1347	1167
X_07_21733	3043	2093	34	513	78	348	175
X_07_21810	27583	13401	146	2552	895	5291	5288
X_07_21811	4537	3136	21	635	73	349	323
X_07_21812	1725	1243	9	237	27	175	80
X_07_21813	16957	8585	61	1825	436	3306	2921
X_07_41711	17704	10903	60	2293	391	1810	1718
X_07_41712	7431	4669	27	1226	147	681	681
X_07_41811	589	430	2	74	5	42	36
Other	98119	56297	449	12417	2474	13682	12900
TOTAL	250494	169690	891	23463	5110	26660	24680

CE-o68 Voters With Ballots List

The fields in this table are not specified, and not obvious (see Appendix 1). Also, critical data are missing (e.g. Undeliverable, Accepted or Rejected reason). The table combines facts from different processes, but the facts are ambiguous. For example, each CE-o68 record contains a PARTY field and PRECINCT_CODE field – see Appendix 1. It is not specified where and when the values of these two fields originate.

1. Do the data in these two fields represent the values in the registration record at the time that the elector's ballot was REQUESTED to be printed?
2. What about voters for whom the mail ballot packets were subsequently "pulled" from the printer's production run? Or replaced? Are the values for those voters updated?
3. Do the data represent the values printed on the ballot that was actually SENT to the voter by the printer or the clerk? Or the values printed on the Vote In-Person ballot that was printed at the VSPC and issued to the voter?
4. Do the data represent the values printed on the ballot that was RECEIVED by the clerk and inspected to verify that the correct style was returned by the voter?

To proceed, it is assumed that the fields represent choice #1 above and that the values for possibilities #2, #3, and #4 are "UNKNOWN."

NOTE: To complete the chain of custody, the tracking record should include:

- Requested: recordID, voterid, date, style, method, PrecinctCode, split
- Sent: recordID, date, style, method
- Received: recordID, date, style, method
- Rejected: recordID, date, style, reason

For this analysis of Boulder County data, each tracking record is assigned a synthesized "ballot style" based on the Party and PrecinctCode in the CE-o68 file. It appears that this may not represent the state in the VR-o11 file at the time a downstream process is executed.

Query_3 reports that CE-o68 contains the following ballot tracking records by party and county.

QUESTIONS:

- What does it mean when a ballot has been issued with Party = GRN, LBR, or UAF?
- What does it mean when the County is not "07"?

B. PARTY	Total Of BALLOT_ID	County Code					
		03	07	16	35	62	64
DEM	88792		88789	1	1	1	
GRN	18		18				
LBR	13		13				
REP	35385	1	35382		1		1
UAF	135		134			1	
	124348	1	124336	1	2	2	1

Query_5 reports ballot tracking records with no matching elector in VR-011.

BALLOT_ID
666046
6390776
6802871
600928045
601328410

QUESTION:

What do these ballots without electors represent?

Query_6 reports Active Electors in VR-011 file with no matching ballot in CE-068 records.

VOTER_STATUS	STATUS_REASON	Total Of VOTER_ID	DEM	REP
Active		383	259	84
Active	20 Day Period	166	135	33
		551	434	117

QUESTION:

What do these active electors without ballots signify?

Query_4A reports for all of the ballots.

QUESTION

- Why is the entry for the printing vendor not reported?
- What are the entries for the five low volume items?

ISSUING_LOCATION	Total Of VOTER_ID	In Person	EMAIL	FWAB	MAIL	ONLINE TRANSMISSION
BOULDER CLERK & RECORDER	169	149			20	
COUNTY CLERK - ELECTION WING	124006		489		123378	139
COUNTY CLERK'S MAIN OFFICE	3			1	2	
GREELEY MAIL OUT	2				2	
LAFAYETTE CLERK & RECORDER	44	27			17	
LONGMONT CLERK & RECORDER	88	67			20	1
SEQUOIA MAILING	1				1	
SUPPLEMENTAL DATA	1				1	
UNIVERSITY OF COLORADO - UMC	26	26				
VENDOR	3				3	
	124343	269	489	1	123444	140

Query_4 reports that the following ballots were "issued" by the clerk (requested to be sent?, printed?, sent?) by the method and style indicated in the CE-068 record:

QUESTIONS:

- See following table, Styles D_16, 35,62, and R_03, 35, and 64, and all X_
 - o What does it mean when a ballot is not one of the official styles?
 - o Were ballots actually issued? If so, which style?

- Where are the DRE ballots?
- Where do the 73 Confidential Voter ballots belong?
- Why are the MAIL ballots not separated between those printed by the vendor and those issued by the clerk?
- Are there additional records tracking the EMAIL and ONLINE ballots?

B STYLE	Total Of BALLOT ID	EMAIL	FWAB	IN PERSON PAPER	MAIL	ONLINE TRANSMISSION
D 07 21613	678	3			675	
D 07 21633	2563	4		2	2555	2
D 07 21712	14736	54		8	14660	14
D 07 21733	2399	3		2	2394	
D 07 21810	25917	178	1	107	25588	43
D 07 21811	4504	28		7	4462	7
D 07 21812	1730	8		2	1719	1
D 07 21813	17390	104		25	17217	44
D 07 41711	13029	30		24	12968	7
D 07 41712	5508	8		7	5487	6
D 07 41811	335	2		1	331	1
D 16 13308	1				1	
D 35 21452	1				1	
D 62 41350	1				1	
R 03 62942	1				1	
R 07 21613	198	2			195	1
R 07 21633	1715	2		3	1710	
R 07 21712	5614	10		16	5586	2
R 07 21733	1949	1		2	1946	
R 07 21810	5221	17		15	5186	3
R 07 21811	2491	1		4	2485	1
R 07 21812	1018	5		9	1004	1
R 07 21813	3040	9		6	3023	2
R 07 41711	9112	15		20	9273	4
R 07 41712	4254	4		8	4240	2
R 07 41811	570			1	569	
R 35 21452	1				1	
R 64 22889	1				1	
X 07 21613	1				1	
X 07 21633	5				5	
X 07 21712	20				20	
X 07 21733	5				5	
X 07 21810	32				32	
X 07 21811	16				16	
X 07 21812	2				2	
X 07 21813	24	1			23	
X 07 41711	37				37	
X 07 41712	21				21	
X 07 41811	2				2	
X 62 42363	1				1	
	124343	489	1	269	123444	140

Query_9 reports the ballots sent, ordered by the style of the registrant in the VR-011 file.

R_STYLE	Total Of VOTER_ID	DEM	REP
D 07 21613	678	678	
D 07 21633	2569	2569	
D 07 21712	14748	14748	
D 07 21733	2398	2398	
D 07 21810	25924	25924	
D 07 21811	4513	4513	
D 07 21812	1730	1730	
D 07 21813	17406	17406	
D 07 41711	13058	13058	
D 07 41712	5520	5520	
D 07 41811	336	336	
R 07 21633	299		199
R 07 21633	1715		1715
R 07 21732	5625		5625
R 07 21733	1955		1955
R 07 21810	5238		5238
R 07 21811	2499		2499
R 07 21812	1017		1017
R 07 21813	3050		3050
R 07 41711	9321		9321
R 07 41712	4260		4260
R 07 41811	571		571
	124330	68880	35450

QUESTION

This is not a true count of the ballots issued i.e. ballots received into the custody of the elector.

The following should be excluded:

1. Ballots that were returned undeliverable.
2. Ballots intended for remote voters that never got delivered to the intended elector.
3. Ballots that were voided such as mid-election voter cancellation.

Query_9A reports Sent Ballots Report data, and table errors.

PARTIAL STYLF	Active Voters EX003	Inactive Voters EX003	IVS Printed	In House Printed	Voided	Registered After Mail Cut-Off	In Person Ballots	Total Active Ballots	Col B Col 1	ERRORS
07 21633	4,311	1,119	4,738	107	90	15	5	4,310	1	1
07 21732	20,717	1,894	19,571	463	340	93	24	20,216	1	25
07 21733	89	4	69	0	0	0	0	69	0	0
07 21812	3,762	244	2,734	48	38	10	11	2,765	3	3
07 21712	287	30	281	8	3	0	0	286	1	1
07 21733	4,332	337	4,266	84	54	16	4	4,216	1	1
07 21810	3,282	339	3,199	79	40	15	13	3,260	1	1
07 21811	2,683	233	2,253	59	28	7	2	2,091	0	0
07 46742	9,841	1,643	9,730	270	150	40	17	9,835	4	4
07 46751	22,499	4,007	22,202	544	286	96	44	22,500	1	11
07 21812	2,311	219	2,087	49	29	6	4	2,111	0	2
07 41811	913	80	904	16	13	4	2	911	0	0
07 21810	28,197	9,361	27,677	879	699	149	112	28,138	11	25
07 21813	16,051	5,624	15,862	444	247	78	17	16,054	3	0
07 21613	879	141	876	17	14	2	0	876	0	0
07 21811	3,951	569	3,519	81	73	10	11	3,549	7	7
07 21812	1,118	117	1,209	28	21	0	2	1,139	0	0
07 21813	576	101	540	22	10	1	3	576	0	0
07 21811	1,721	260	1,707	32	29	9	3	1,722	0	0
Total	125,073	27,531	123,464	3,199	2,364	351	270	125,090	17	75

QUESTIONS:

The last column, "ERRORS" shows the actual number of differences between the Active Voters in the EX-003 file and the Active Ballots (whatever they are). The number is 75, not 17.

Query_9 reports 124,330 ballots sent. Query_9A reports 125,090.

This table lacks separation between Party. (R and D ballots are not interchangeable.

Should "IVS Printed" be "IVS Mailed"?

Query_8 reports ballots received, ordered by the style of the registrant in the VR-011 file supplied to the canvass board.

R_STYLE	Total Of BALLOT_ID	DOM	REP
D 07 21613	184	184	
D 07 21633	567	567	
D 07 21712	4415	4415	
D 07 21733	546	546	
D 07 21810	8820	8820	
D 07 21811	1281	1281	
D 07 21812	531	531	
D 07 21813	4751	4751	
D 07 41711	3683	3683	
D 07 41712	1375	1375	
D 07 41811	82	92	
R 07 21613	72	72	
R 07 21633	406	406	
R 07 21712	1868	1868	
R 07 21733	507	507	
R 07 21810	1688	1688	
R 07 21811	908	908	
R 07 21812	396	396	
R 07 21813	979	979	
R 07 41711	3423	3423	
R 07 41712	1588	1588	
R 07 41811	208	208	
	88780	26245	12817

QUESTION:

Where does one find the disposition of each received ballot, including reason for rejection, and indication whether or not cured?

QUESTION 8A (below)

Why does chart 8A report 38,369 ballots cast, but 8 reports 38,282?

Why does 8A understate the number of cast ballots?

The accepted ballots is not the same as the cast ballots, or the received ballots. The nomenclature appears to be jumbled. It would help to have an arithmetic expression identifying each of the components.

The difference in reported Difference and ERRORS, for the two columns reported, is the result of compensating errors.

Query_8A reports Received Ballots Report, and table errors.

PARTIAL STYLE	Active Voters	Accepted Mail-In	Accepted In-Person	Total Vote Credit	Rejected Main-In	Total Ballots Cast	Tally Total (Ballots Counted)	Diff Total (Voter Credit - Tally Total)	(Ballots Accepted Ballots Counted)	ERRORS	(Ballots Cast - Ballots Counted)	ERRORS
07 21633	4311	957	5	962	14	976	961	1	1	1	15	15
07 21712	20217	6110	24	6134	53	6187	6134	0	0	0	53	53
07 21733	69	25	0	25	0	25	25	0	0	0	0	0
07 21812	2762	919	11	934	9	943	934	0	0	0	9	9
07 21712	287	107	0	393	2	399	397	0	0	0	2	2
07 21733	4915	1017	4	1021	13	1034	1021	0	0	0	13	13
07 21810	3265	1242	13	1258	13	1266	1258	0	0	0	13	13
07 21811	2099	529	2	580	6	586	580	0	0	0	6	6
07 41712	9831	2931	15	2946	22	2968	2945	1	1	1	23	23
07 41711	22499	7058	44	7067	50	7117	7067	0	0	0	50	50
07 21811	2521	678	4	682	8	690	682	0	0	0	8	8
07 41811	918	299	2	901	0	901	901	0	0	0	0	0
07 21810	28507	9384	117	9196	21	9267	9196	0	0	0	21	21
07 21813	16051	4385	17	4402	30	4432	4401	1	1	1	31	31
07 21613	879	255	0	255	3	256	255	0	0	0	1	1
07 21813	3951	1122	11	1133	3	1136	1133	0	0	0	3	3
07 21811	3118	425	2	417	3	418	417	0	0	0	1	1
07 21813	578	172	3	175	0	175	175	0	0	0	0	0
07 21811	1722	491	3	494	4	498	495	(1)	-1	1	3	5
Grand	125071	37799	270	38069	300	38369	38067	2	2	6	302	306

Query_7 reports ballots received by the clerk:

RECEIVED_METHOD	TOTAL OF BALLOT_ID	IN	IN PERSON PAPER	MAIL
NOT RECEIVED	86052	86052		
UNKNOWN	38022			38022
VOTE_CENTER_NUM	269		269	
	124341	86052	269	38022

QUESTION:

NOTE: The number of ballots cast by voters is not tracked by the system.

NOTE: The ballots recorded as not received include "UNDELIVERABLE" ballots which should be separately recorded.

NOTE: "Not received" ballots includes those ballots that were cast by the voter but not received by clerk (possibly lost, delayed, or stolen).

SOV Consolidated Statement of Votes

The Boulder County SOV file contains for each contest, ordered by precinct/style, the number of total votes, contestant votes, overvotes, and undervotes.

Query_10 reports Republican Ballots Counted in the Statement of Votes.

Precinct Name	TOTAL	REP	DEM	IND	OTH	REP	DEM	IND	OTH	REP	DEM	IND	OTH	REP	DEM	IND	OTH
REP	11078	5796	3338	1887	1057	0	4102	0	4102	1887	0	598	0	11078	10012	0	0
REP	2357079020	7	18	39	58												
REP	2361307963	7	42	47	82												
REP	2361307968	7	12	14	17												
REP	2361307969	7	47	61	61												
REP	2361307970	7	51	61	61												
REP	2361307971	7	19	39	59												
REP	2361307972	7	17	21	21												
REP	2361307973	7	85	85	85												
REP	2361307974	7	109	111	111												
REP	2361307975	7	44	44	44												
REP	2361307976	7	193	193	193												
REP	2361307977	7	193	193	193												
REP	2372022290	8	198	198	198												
REP	2372022291	8	198	198	198												
REP	2372022292	8	198	198	198												
REP	2372022293	8	198	198	198												
REP	2372022294	8	198	198	198												

QUESTION:

Why are 47 more ballots counted for REP Commissioner District 2 than for REP Commissioner District 1, and REP US Senator?

How can this happen?

Query_11 reports Democratic Ballots Counted in the Statement of Votes.

Precinct	200701	200702	200703	200704	200705	200706	200707	200708	200709	200710	200711	200712	200801	200802	200803	200804	200805	200806	200807	200808	200809	200810	200811	200812
DEM 2181007830	2	80	80		80																			
DEM 2181007831	2	24	24		24																			
DEM 2181007832	2	28	28		28																			
DEM 2181007833	2	80	80		80																			

Continued ...

DEM 2171307801	8	110	110		110																			
DEM 2171307802	8	108	108		108																			
DEM 2171307803	8	88	88		88																			
DEM 2171307804	2																							
DEM 2171307805	2				110																			
DEM 2181007834	2																							
DEM 2181007835	2				11																			
DEM 2171307806	2																							
DEM 2171307807	2																							
DEM 2171307808	2	20	20		20																			
DEM 2171307809	2	26	26		26																			
DEM 2171307810	2	26	26		26																			
DEM 2171307811	2	100	100		100																			

QUESTION

To evaluate consistency between precinct/style reports it is necessary that the election system retain and export these details.

This is necessary in order to verify consistency between eligible electors, ballots cast, ballots counted, and votes counted.

As per the example, the combined precincts are not of the same ballot style – see DEM 2171307400, 2181007834, 2181007835.

How is one to produce a styles organized report?

Query_11A reports that not all contests are reported for multi-precincts.

The following table, extracted from two portions of the SOV file, includes precinct 100 and the five multi-precincts reported in the previous chart above.

The first section is precinct 100. Notice that there is a row reported for each contestant running in this precinct. Also notice that 80 ballots and 80 votes are reported for each contest.

The second section includes the five combination precincts from above. Notice that there is not a row for each contestant in each combination precinct. What does this signify?

Precinct Name (Short)	Precinct Name	Active Voters	Contest Title	Choice Name	Total Ballots	Total Votes	Total Under Votes	Total Over Votes
100	0149001000	80	United States Senator - Democratic Party	Jeff Lund-Wicker	80	78	1	0
100	0149001000	80	Representation to the 115th United States Congress - District 2 - Democratic Party	Janet Peltz	80	78	2	0
100	0149001000	80	Representation to the 115th United States Congress - District 2 - Democratic Party	Yvonne Fields - DEM	80	2	2	0
100	0149001000	80	Regent of the University of Colorado - At Large - Democratic Party	Alisa Mathison	80	75	5	0
100	0149001000	80	State Representative - District 99 - Democratic Party	Paula Gray	80	75	5	0
100	0149001000	80	District Attorney - 20th Judicial District - Democratic Party	Traci Spangert	80	78	4	0
100	0149001000	80	County Commissioner - District 2 - Democratic Party	Steve McNeil	80	78	2	0
100	0149001000	80	County Commissioner - District 2 - Democratic Party	Deb Gardner	80	71	7	0
400_417	0170001000	319	State Senator - District 27 - Democratic Party	Mark Jones	319	315	4	0
400_417	0170001000	319	State Representative - District 30 - Democratic Party	Mark Jones	319	315	4	0
400_816_820	0170001000	319	Regent of the University of Colorado - At Large - Democratic Party	Mark Mathison	319	319	0	0
400_816_820	0170001000	319	State Attorney - 20th Judicial District - Democratic Party	Deb Gardner	319	319	0	0
400_816_820	0170001000	319	County Commissioner - District 2 - Democratic Party	Steve Jones	319	319	0	0
400_816_820	0170001000	319	United States Senator - Democratic Party	Jeff Lund-Wicker	319	319	0	0
400_845_870	0170001000	360	Representation to the 115th United States Congress - District 2 - Democratic Party	Janet Peltz	360	360	0	0
400_845_870	0170001000	360	Representation to the 115th United States Congress - District 2 - Democratic Party	Yvonne Fields - DEM	360	0	0	0
400_845_870	0170001000	360	Representation to the 115th United States Congress - District 2 - Democratic Party	Steve Jones	360	360	0	0
400_845_870	0170001000	360	Representation to the 115th United States Congress - District 2 - Democratic Party	Deb Gardner	360	360	0	0

Vendor Batches Report

On some unspecified date, the clerk selects eligible registrants from the then-current VR-011 Registration file and sends style and address data to a printing and mailing vendor who operates behind closed doors. On some future date, the clerk sends the vendor a supplemental file containing registration additions and deletions.

PROBLEM A: The table below, from the reconciliation report, summarizes this activity, and purports to verify its accuracy by providing USPS receipt counts. These USPS receipts should be inspected. There appears to be a 1343 ballot difference between the number of expected and the number of actual ballots mailed (see following chart).

Vendor Batches

	Batch Date	Original Number in Batch	LAT Ballots	Voided Ballots Returned from Vendor
Batch 02 - UOCAVA Mail	8/11	716		
Batch 03 - HCF	8/12	191		
Batch 04 - ID Required	8/12	313		
Batch 05 - Regular	8/12	119,190	466	877
Batch 23 - ID Supplemental	8/2	73		
Batch 24 - Reg Supplemental	8/2	3,447		
Total For Printing		123,930		
Ballots Picked up from vendor				
HCF Ballots		191		
LAT Ballots		466		
Voided Ballots		877		
UOCAVA Mail Ballots		716		
Total Picked up from Vendor		2,286		
Expected Vendor to Mail		121,680		
USPS Receipts		121,680		
Mailed 1st Class Receipt		126		
Bulk USPS Receipt		121,555		
Difference Expected vs Mailed:		0		

	batch	lat	void
b3-UOCAVA	716		
b3-HCF	191		
b4-ID Req	313		
b5-Regular	119190	466	877
b23-ID Supp	73		
b24-Reg Supp	3447		
TOTAL for Printing	123930	466	877
HCF	191		
LAT		466	
VOIDED			877
UOCAVA	716		
Picked up from Vendor	907	466	877
Expected Vendor to MAIL	121680		
USPS Receipts	121680		
Difference Expected vs Actual Mailed	1343		

Additional Problems Discovered

PROBLEM_B: Sent Ballot Summary indicates that the vendor printed 123,464 ballots. The Vendor Batches table above reports that the vendor printed $123,930 + 466 + 877 = 125,273$ ballots. This is a difference of 1,809 ballots.

PROBLEM_C: The Vendor Batches table and Sent Ballot Summary do not differentiate between the Republican Party Primary Election and the Democratic Party Primary Election ballots. Since Rep and Dem ballots in a precinct are not interchangeable, this distinction must be reported to aid in the detection of error or fraud.

PROBLEM_D: Sent Ballot Summary reports 125,073 Active Registrants and 125,090 Active Ballots. However, see the VR-011 and CE-068 tables below. To get close to the Active Registrant number, add 205 (for confidential voters) to the 124,881 total active registrants provided on the VR-011 file (new total 125,086). This would require an increase of 205 to the 124,343 Active Ballots provided on the CE-068 file (new total 124,548).

- This would leave a difference of 538 more active registrants than active ballots.
- Were all the 442 Active_20 Day Period [supposed to be] issued ballots?
- What does Active Failed to Vote signify (missed one election)?

VR 011	Registrants	Adjusted	Reason
Active	113893		
Active_20 Day Period	442		
Active_Failed to Vote	10546		
Active Total	124881	125086	Confidential 205
Inactive_NCOA	2636		
Inactive_Returned Mail	12919		
Inactive_Undeliverable Ballot	11880		
Inactive Total	27435		
Total Of VOTER_ID	152316		

CE 068		Adjusted	Reason
MAIL	123444		
ONLINE TRANSMISSION	240		
EMAIL	489		
PHONE	1		
IN PERSON PAPER	269		
Total Of BALLOT_ID	124543	124548	Confidential 205

PROBLEM_E: The clerk reported that "During the course (sic) of the election, a total of 5,332 ballots were returned to the county by the USPS as undeliverable as of the date of this report." Is it correct to include the 5,332 "returned as UNDELIVERABLE by USPS" ballots in the counts of Active Registrants or so-called Active Ballots? At the end of the election, are these reflected in VR-011 as Inactive Registrants? Active Failed to Vote? At the receipt of these "returned as UNDELIVERABLE by USPS" ballots, are they no longer so-called Active Ballots? Does it matter if this is the second occurrence for the voter? If they are excluded from the VR-011 file provided to the canvass board, then each must be identified in the VR-011 and CE-068 files so that they can be separated by party and precinct/style.

PROBLEM_F: The disposition of individual received ballots is missing from the CE-068 file. It is particularly important to differentiate the accepted from the rejected, the reasons for the rejection, and the initially rejected that were cured.

PROBLEM G: Received Ballot Summary incorrectly reports the number of differences between voters (38,069) and ballots counted (38,067) as two. Because of compensating errors, some of the differences are hidden underneath the summary. There are actually 6 differences; they occur in the following precincts:

304
606
867
871
881
917

PROBLEM H: The Received Ballots Report doesnot indicate that a Style Check was performed. This omission opens the door to voter error or fraud by returning ineligible ballots. This door must be closed.

PROBLEM I: The official Summary of Votes reports that 38,067 ballots were counted. Received Ballot Summary reports that 38,369 ballots were cast (38,069 accepted and 300 rejected). CE-068 reports that 38,291 ballots were cast (38,022 Remote and 269 In-Person) but does not report the accepts and rejects. It is likely that the 78 ballot difference between Received Ballot Summary and CE-068 reflect the 73 Confidential Voters mentioned earlier. If so, this confirms that the confidential voters are not recorded in the copy of CE-068 provided to the canvass board.

Source Data	Ballots "Cast"	Ballots Counted	Ballots Rejected
SOV	n/a	38,067	n/a
Attachment 2	38,369	38,067	300
CE-068	38,291	?	?
Attachment 2 minus CE-068	78	?	?
Attachment 2 minus SOV	n/a	2	n/a

PROBLEM J: The July and August summaries on the ACE reporting system cannot be reconciled with the data on VR-011. Start with the number of registrants that became inactive as a result of the current election and consider the impact of the confidential voters.

	Active	Inactive	Total
VR-011	194,044	56,450	250,494
ACE - July	194,361	56,510	250,871
ACE - August	191,836	59,771	251,607
ACE August minus ACE July Net Change	-2,525	3,261	736
VR-011 minus ACE July Net Change	-317	-60	-377
VR-011 minus ACE August Net Change	2,208	-3,321	-1,113

CHAPTER - BOULDER COUNTY 2016 PRIMARY ELECTIONS STATUS

In the 2016 Primary Elections conducted in Boulder County, the Republican members of the Canvass Board refused to certify the elections because they could not reconcile the number of ballots cast to the number of ballots counted. See the following certificate and the documentary explanation from the dissenting canvass board members. There has been no response from the Colorado Department of State or the Clerk.

Certificate



RE: Certification of Boulder County 2016 Primary Election

The duly appointed members of the 2016 Primary Election Canvass Board for Boulder County have completed the duties required, as detailed in 8 CCR 1505-1 Rule 10.2.2 and 10.8.

And, in accordance with C.R.S. 1-10-101.5(c), we, the undersigned members of Canvass Board, do hereby certify that the number of ballots counted in the June 28 Primary election do not exceed the number of ballots cast in this election, as shown in the attached Statement of Vote.

We further certify that the attached Statement of Vote is a true and accurate listing of the results for the 2016 Primary Election held in Boulder County on Tuesday, June 28, 2016.

Signed:

Paul H. Geissler 7/11/16
Paul Geissler, Democratic Party Representative Date

Sally Martin 7/11/16
Sally Martin, Democratic Party Representative Date

This election cannot be reconciled based on the dates of CRS 1-10-101.5(1)(b) to reconcile the ballots 7/11/16
Maureen Denig, Republican Party Representative Date

I cannot reconcile the number of ballots cast and voted as required by
C.R.S. 1-10-100.5 (1)(a) 7-11-2016
Cathy Jarrett, Republican Party Representative Date

Hilary Hail 7-11-2016
Hilary Hail, Boulder County Clerk and Recorder Date

Non-certification Explanation

Boulder County Clerk and Recorder
Elections Division
1750 33rd Street, Suite 200
Boulder, Colorado

July 12, 2016

Attn: Clerk Hillary Hall

The 2016 Primary Election Canvass Board met to consider reconciliation of the ballots cast and certification of the Boulder County 2016 Primary Election Abstract of Votes. The information presented in the AUDIT portion is uncontested. Canvass Board members Maureen Denig and Cathy Jarrett could not complete the statutory requirements on behalf of the Republican Party for the following reason:

The number of ballots cast in the election and the number of ballots cast in each precinct were not provided to the canvass board. Therefore, it was not possible to apply C.R.S. 1-10-101.5 and Rule 10.4.1.

C.R.S. 1-10-101.5 requires that – "(1) The canvass board shall: ... (a) Reconcile the ballots cast in that election ... to ballots counted; (b) Reconcile the ballots cast in each precinct ... to registered electors in the precinct; and"

Rule 10.4.1 requires that – "The designated election official must provide the following information to the canvass board: ... (c) the number of ballots cast,"

The records provided to us do not include a verifiable chain of custody for ballots cast by the voter. Since there is no record of how many ballots were cast, it is not possible to know whether the cast ballots are actually received by the designated election official. (Cast ballots may have been lost or stolen along the way.)

When we are provided with a verifiable count of the ballots cast by voters in the election, and the ballots cast by voters in each precinct, we will reconsider our decision.

It is vital that this certification deficiency be corrected before the 2016 General Election. We suggest that Boulder County party appointed canvass board members convene a public meeting to exchange information and discuss with the Secretary of State how we are to know that the ballots cast by voters are received by the designated election official. This requires knowing the number of ballots cast by voters and the number of ballot envelopes received, into the custody of the election official, at the earliest point of reception.

Sincerely,

Maureen A. Denig

Catherine A. Jarrett

Canvass Board Member 2016

Canvass Board Member 2016

Colorado Department of State Proposed Rules Change – July 20, 2016

The Department proposed a new rule 1.1.8 to change the meaning of “ballots cast”. See below, “Revised Draft of Proposed Rules, July 20, 2016”

Colorado Voter Group, and others, including one of the Canvass Board members attended a July 25th public meeting to testify against adoption of the proposed redefinition. Colorado Voter Group submitted a written document. See below, Colorado Voter Group to Secretary Wayne Williams, July 25, 2016.

Revised Draft of Proposed Rules

Office of the Colorado Secretary of State Election Rules

8 CCR 1505-1
Revised July 20, 2016

Disclaimer:

The proposed draft rules have changed. This draft supersedes the Preliminary Draft that was issued with the Notice of Proposed Rulemaking on June 15, 2016. These revised proposed rules will be considered at the July 25, 2016 rulemaking hearing. In accordance with the State Administrative Procedure Act, this revised copy of the proposed rules is made available to the public and posted on the Department of State's website.

Please note the following formatting key:	Meaning
Font effect	
Sentence case	Retained/modified current rule language
SMALL CAPS	New language
Strikethrough	Deletions
Shading	Revisions to previous draft
<i>Italic blue font text</i>	Annotations

Amendments to 8 CCR 1505-1 follow:

Amendments to Rule 1 concerning definitions:

1.1.8 “BALLOTS CAST” MEANS THE TOTAL NUMBER OF BALLOTS RECEIVED BY THE COUNTY CLERK IN AN ELECTION. “BALLOTS CAST” DOES NOT INCLUDE MAIL BALLOT ENVELOPES RETURNED TO THE COUNTY CLERK BY THE U.S. POSTAL SERVICE AS UNDELIVERABLE.

July 25, 2016

Dear Secretary of State Williams,

We do not accept CDOS's Orwellian double-speak proposed as the new Rule 1.18 "Ballots Cast" definition. We begin by identifying four problems with the proposed terminology. After discussion, we offer a temporary, albeit imperfect, work-around for the November 2016 election. The following discussion relates also to proposed Rules 1.1.44, 10.5.2(b), 10.11.2(a), and 21.4.15(d)(5).

1. Attempting to redefine the commonly understood word "cast" is a horrible suggestion. If adopted, we would have to accommodate to mind-bending acrobatics to distinguish between "cast" and "received."

2. There is a vital distinction between BALLOTS CAST and BALLOTS RECEIVED, and this distinction must be retained. "Ballots Cast" relates to something that electors are allowed to do; "Ballots received" relates to something that election judges are allowed to do. The difference is as stark as the difference between a baseball pitcher and catcher. To speak of the catcher pitching and catching the ball is nonsensical. Exhibit 1 illustrates a few of the many nonsensical consequences.

3. The CDOS's proposed change disguises a major flaw in Colorado's election system. Such deception would directly violate CDOS's explicit statutory **duty** to enforce the provisions of the code and would misuse CDOS's statutory **power** to adopt rules necessary for the proper administration and enforcement of election laws. The law does not say that CDOS has the power to rewrite the code; see Exhibit 2: 1-1-107, Powers and duties of secretary of state, and Hanlon v. Gessler, 2014 CO 24, 333 P.3d 41.

4. Colorado's mail ballot system currently provides no chain-of-custody of ballots, has made no attempt to comply with the law requiring that it report the number of ballots cast by voters, and has made no provision for assessing the number of cast ballots that have been lost or stolen. In addition to potentially disenfranchising eligible electors, Colorado's election contest results are not trustworthy. In the recent Boulder County Primary election, 65% of the issued ballots were not returned. Lost or stolen cast ballots may have overturned an election contest. For example, the House District 10 contest for the Democratic Party Primary was won by 212 votes, but there were actually 16,000 ballots not returned, and it is UNKNOWN how many of the unreturned ballots were actually cast ballots not returned, and it is UNKNOWN how many of the unreturned ballots

Colorado's non-compliance with the requirement to report the number of ballots cast is not a new problem to CDOS. Boulder County Canvass Boards have reported this issue for years, and nothing has been done to address this violation of the law. The problem is not just the missing report of ballots cast. Without knowing the number of ballots cast, Colorado's election system cannot be verified as secure and accurate.

To remedy this problem, it is likely that CDOS must develop procedures to document and publicly certify that the entire election system complies with the laws of the State of Colorado. CDOS must then recommend legislative and election system changes needed to achieve trustworthy elections. These steps will take time and talent, so in the meantime, a temporary fix is needed for the November 2016 General Election.

Any fabricated number reported as "ballots cast" would be an affront to the people of Colorado and potentially illegal. We assume it is true that Colorado election officials do not know how many ballots are cast by voters, as opposed to received by officials. Therefore, we ask CDOS to adopt a temporary rule for the November 2016 General Election. (1) The term "ballots cast" should remain unchanged. (2) The new rule should require that wherever the number of "ballots cast" is reported by the office of the Designated Election Official, that number must be labeled, in some manner, as "UNKNOWN."² (3) Numbers identified as UNKNOWN may not be used in Canvass Board decision-making. (4) A temporary method for certification will need to be devised and adopted.

Footnotes and two exhibits follow this letter. Our membership includes members with substantial Canvass Board experience, and we are available to discuss our request with you and your staff.

Al Kolwicz, Trustee
Colorado Voter Group
2867 Tincup Circle
Boulder, CO 80305
Al@alkolwicz.net

Notes:

1 Statutory changes have undone the historical chain-of-custody mechanisms required to protect the purity of elections. Prior to these changes, a precinct judge handed each eligible elector a paper ballot that must be returned before the elector was permitted to exit the precinct. The elector marked and verified their votes in a private voting booth, then personally cast the anonymous ballot into the sealed precinct ballot box. This chain-of-custody was verifiably documented by a precinct ballot inventory, a pollbook, a certified judges' report, and the physical unused, spoiled, and cast ballots.

2 "UNKNOWN" is used to alert Canvass Board members and the public that Colorado's election system erroneously uses the term "Ballots Cast" to mis-identify certain information in the official election records (including data files, forms, and reports). The Canvass Board must not use any numbers identified as "UNKNOWN." Colorado's Designated Election Officials (DEOs) do not collect data to know "whether the mail ballot cast by the elector was received by the county clerk and recorder" (C.R.S. 1-7.5-207). Colorado's DEOs only know about the ballots that their offices receive into their custody. Any cast ballot not received has possibly been lost or stolen.

EXHIBIT 1**1-7.5-207. Voter verification - mail ballot information**

Each county clerk and recorder shall provide electors, upon request, with information on whether the mail ballot cast by the elector was received by the county clerk and recorder, including an online mail ballot tracking system or response by other electronic or telephonic means.

1-5-615. Electronic and electromechanical voting systems – requirements

1(e)(III) Gives the elector the opportunity to correct the ballot before the ballot is cast; ...

1-7-514. Random audit

(5) ... The rules shall account for: ... (c) The confidentiality of the ballots cast by the electors; and ...

1-13-5-605. Preparing to vote

(1) Any eligible elector desiring to vote shall write his or her name and address on a form ... The form made available must contain in substance the following:

I state under penalty of perjury that I am an elector who is eligible to vote each of the ballots that I have cast in this election; that my signature and name are as shown on this document; that I have not and will not cast more than one ballot.

EXHIBIT 2**1-1-107. Powers and duties of secretary of state - penalty**

(1) In addition to any other duties prescribed by law, the secretary of state has the following duties: ...

(b) To enforce the provisions of this code; ...

(2) In addition to any other powers prescribed by law, the secretary of state has the following powers:

(a) To promulgate, publish, and distribute, either in conjunction with copies of the election laws pursuant to section 1-1-108 or separately, such rules as the secretary of state finds necessary for the proper administration and enforcement of the election laws, ...

Hanlen v. Gessler, 2014 CO 24, 333 P.3d 41.

"[T]he secretary lacks authority to promulgate rules that conflict with statutory provisions."

Request for Attorney General Action

The Honorable Cynthia Coffman August 21, 2016
 Attorney General of Colorado
 1300 Broadway
 Denver, CO 80202

Dear Madam Attorney General:

An election rule, adopted on August 11, 2016, will cause problems for the November election. We hope this letter will enable you to counsel and advise the Secretary of State regarding this matter.

Rule 1.1.8 creates an unworkable and illegal definition for the common term "ballots cast." (See Code of Colorado Regulations Tracking Number 2016-00295.)

1.1.8 "BALLOTS CAST" MEANS THE TOTAL NUMBER OF BALLOTS RECEIVED BY THE COUNTY CLERK IN AN ELECTION. "BALLOTS CAST" DOES NOT INCLUDE MAIL BALLOT ENVELOPES RETURNED TO THE COUNTY CLERK BY THE U.S. POSTAL SERVICE AS UNDELIVERABLE.

This rule is illegal because (1) it violates the plain language objectives of Colorado law, and (2) the rule-maker has exceeded its authority by adopting a rule that changes Colorado law.

VIOLATES PLAIN LANGUAGE

The requirement for the use of plain language is established in numerous places including:

- C.R.S. 2-2-801. Plain language requirement in state laws
- C.R.S. 24-4-103.3. Mandatory review of rules by agencies - report on results of review in departmental regulatory agendas

With rule 1.1.8 the Secretary of State is violating Colorado's plain language objectives. The term "ballots cast" is already in common use. People think and speak of "ballots cast by the voter." Casting a ballot is understood to mean an action that a voter takes when the voter releases final custody of their marked ballot into a sealed ballot box, or, in the case of a ballot cast by a remote voter, when the remote voter releases final custody to a USPS mailbox, a drop box, a computer, or a ballot collection agent, etc.

To redefine "ballots cast" to mean an action that an election official takes (rather than the voter) will be massively disruptive and totally unnecessary. A casual reading of available election-related documents and computer reports illustrates the confusion that will result from this unauthorized rewrite of the law. For example, may an election official now legally cast more than one ballot? Perhaps thousands?

In addition, rule 1.1.8 directly conflicts with the common meaning used in official publications: (a) HAVA, (b) UOCAVA, (c) Voluntary Voting Systems Guide (EAC), (d) Election Management Guidelines

(EAC), (e) Colorado statutes, (f) Colorado election rules, (g) Colorado voter guides, etc., and computer-produced reports.

VIOLATES SEPARATION OF POWERS

The Secretary of State is violating the "Distribution of Powers" (Article III of the Colorado Constitution).

The Secretary of State's definition of "ballots cast" does not clarify or implement the law. Instead, the rule-maker uses this makeshift definition to rewrite the law to an entirely different meaning, a power reserved to the legislative branch.

Before this definition appeared, the statutes' and rules' usage of "ballots cast" has meant "ballots cast by voters," as can be confirmed by searching for the term "ballots cast." For example, C.R.S. 1-10-101.5(1)(a) requires the canvass board to "reconcile the ballots cast in an election to confirm that the number of ballots counted in that election does not exceed the number of ballots cast in that election." This vital election integrity tool created by the legislature is nullified by the Secretary of State's definition of "ballots cast." The Secretary of State's "ballots cast" definition twists the meaning so that a canvass board would certify that "no more ballots are counted than are [acknowledged by the election official as having been] received by the election official." No longer does the process serve the voters; it abandons the voter and now serves the election official. This is not the intent of the law.

To protect the election from internal and external error and corruption, the public must be able to know whether all of the ballots cast by voters were accounted for. Colorado's election system fails to distinguish between ballots that were not cast by voters from ballots that were lost, misplaced, stolen, or delayed past the voting period.

To our knowledge, the Colorado Department of State has not developed a process to substantially comply with the statutory need to know the number of ballots cast by voters.

RECOMMENDATION

Rule 1.1.8 must be immediately withdrawn.

There is no doubt that the two violations outlined above are real. There is a risk that the distribution of powers violation will be challenged in court. The plain language violation will be challenged at the next regulatory rule review; see C.R.S. 24-4-103.3(1)(c).

Rule 1.1.8 is an illegal and ill-conceived rule. It opens the election to challenge. It is confusing and disrupting, and it nullifies a vital election integrity tool. The Colorado Department of State needs to change its focus from rewriting the statutes to implementing the law as intended.

Madame Attorney General, we understand that it is within your powers and duties to counsel and advise the Department of State to withdraw this illegal rule 1.1.8 and not use it in the 2016 general election.

Al Kolwicz
2867 Tincup Circle
Boulder, CO 80305

Registered elector Kolwicz is a systems designer, a canvass board trainer, and a Colorado Voter Group Trustee. He has served as a canvass board member, election judge, and watcher.

Copies to:

Secretary Wayne Williams, Colorado Department of State
Senator Bill Cadman, Senate President
Senator Mark Scheffel, Senate Majority Leader
Senator Lucia Guzman, Senate Minority Leader
Representative Dickey Lee Hullinghorst, Speaker of the House
Representative Brian Delgrosso, House Minority Leader
Director Dan L. Cartin, Office of Legislative Legal Services
Senior Attorney Kate Meyer, Office of Legislative Legal Services
Colorado Secretary of State's Bipartisan Election Advisory Commission
Steve House, Chair, Colorado Republican Party
Rick Palazzo, Chair, Colorado Democratic Party
Jay North, Chair, Colorado Libertarian Party
Peg Cage, Chair, Boulder County Republicans
Charles Heatherly, Republican Advisor
Lee Ann Colacioppo, *Denver Post*
Ernest Luning, *Colorado Statesman*
John Fryar, *Times-Call/Daily Camera*
Kathryn Porter, Independent Journalist
Mary Eberle, Colorado Voter Group
Elena Nunez, Common Cause
The Rocky Mountain Foundation (Lisa Cyriacks)

APPENDIX 1 TABLE DESIGN

Table: VR_011 – Voter Registration

Columns	Name	Type	Size
	ID	Long Integer	4
	VOTER_ID	Double	8
	FIRST_NAME	Short Text	255
	MIDDLE_NAME	Short Text	255
	LAST_NAME	Short Text	255
	NAME_SUFFIX	Short Text	255
	VOTER_NAME	Short Text	255
	DRIVERS_LICENSE	Short Text	255
	SSN	Short Text	255
	REGISTRATION_DATE	Date With Time	8
	EFFECTIVE_DATE	Date With Time	8
	PHONE_NUM	Short Text	255
	HOUSE_NUM	Double	8
	HOUSE_SUFFIX	Short Text	255
	PRE_DIR	Short Text	255
	STREET_NAME	Short Text	255
	STREET_TYPE	Short Text	255
	POST_DIR	Short Text	255
	UNIT_TYPE	Short Text	255
	UNIT_NUM	Double	8
	RESIDENTIAL_ADDRESS	Short Text	255
	RESIDENTIAL_CITY	Short Text	255
	RESIDENTIAL_STATE	Short Text	255
	RESIDENTIAL_ZIP_CODE	Double	8
	RESIDENTIAL_ZIP_PLUS	Double	8
	MAILING_ADDRESS_1	Short Text	255
	MAILING_ADDRESS_2	Short Text	255
	MAILING_ADDRESS_3	Short Text	255
	MAILING_CITY	Short Text	255
	MAILING_STATE	Short Text	255
	MAILING_ZIP_CODE	Double	8
	MAILING_ZIP_PLUS	Double	8
	MAILING_COUNTRY	Short Text	255
	BALLOT_ADDRESS1	Short Text	255
	BALLOT_ADDRESS2	Short Text	255
	BALLOT_ADDRESS3	Short Text	255
	BALLOT_CITY	Short Text	255
	BALLOT_STATE	Short Text	255
	BALLOT_ZIP_CODE	Double	8
	BALLOT_ZIP_PLUS	Double	8
	BALLOT_COUNTRY	Short Text	255
	VOTER_STATUS	Short Text	255
	STATUS_REASON	Short Text	255
	PARTY	Short Text	255
	AFF_DATE	Date With Time	8
	GENDER	Short Text	255
	ID_REQUIRED	Short Text	255
	BIRTH_YEAR	Double	8
	PRECINCT_CODE	Double	8
	PRECINCT_NAME	Double	8
	UOCAVA	Short Text	255
	ISSUE_METHOD	Short Text	255
	FAX	Short Text	255
	EMAIL	Short Text	255

Table: CE-o68 - Voters With Ballots List

Columns

Name	Type	Size
ID	Long Integer	4
COUNTY	Short Text	255
VOTER_ID	Double	8
LAST_NAME	Short Text	255
FIRST_NAME	Short Text	255
MIDDLE_NAME	Short Text	255
NAME_SUFFIX	Short Text	255
YOB	Double	8
GENDER	Short Text	255
PARTY	Short Text	255
PHONE	Double	8
UOCAVA	Short Text	255
UOCAVA_TYPE	Short Text	255
PRECINCT	Double	8
SPLIT	Double	8
RES_ADDRESS	Short Text	255
RES_CITY	Short Text	255
RES_STATE	Short Text	255
RES_ZIP	Short Text	255
MAILING_ADDRESS	Short Text	255
MAILING_CITY	Short Text	255
MAILING_STATE	Short Text	255
MAILING_ZIP	Short Text	255
MAILING_COUNTRY	Short Text	255
BALLOT_ADDRESS	Short Text	255
VOTE_METHOD	Short Text	255
MAIL_BALLOT_SENT_DATE	Date With Time	8
MAIL_BALLOT_SENT_METHOD	Short Text	255
MAIL_BALLOT_RECEIVE_DATE	Date With Time	8
IN_PERSON_VOTE_DATE	Short Text	255
ISSUING_LOCATION	Short Text	255
ELECTION_NAME	Short Text	255

Table: SOV - Statement of Vote

Columns

Name	Type	Size
ID	Long Integer	4
Precinct Name (Short)	Short Text	255
Precinct Name	Short Text	255
Active Voters	Double	8
ContestSeqNbr	Double	8
Contest Title	Short Text	255
Choice Name	Short Text	255
CandSeqNbr	Double	8
PartyCode	Short Text	255
Total Ballots	Double	8
Total Votes	Double	8
Total Under Votes	Double	8
Total Over Votes	Double	8

DO NOT COPY

APPENDIX 2 - CANVASS-RELATED STATUTES AND RULES**Statutes - C.R.S. 1-10-101.5. Duties of the canvass board**

*** Titles 1 through 11, 13, 14, 16, 17, 19 through 21, 26 through 37, and 40 through 43 of the Colorado Statutes have been updated and are current through all laws passed during the 2016 Legislative Session, subject to final review by the Colorado Office of Legislative Legal Services. The remainder of the titles are current through all laws passed during the 2015 Legislative Session and are in the process of being updated. ***

ARTICLE 10. SURVEY OF RETURNS
PART 1. SURVEY OF RETURNS - PARTISAN ELECTIONS

1-10-101.5. Duties of the canvass board

(1) The canvass board shall:

(a) Reconcile the ballots cast in an election to confirm that the number of ballots counted in that election does not exceed the number of ballots cast in that election;

(b) Reconcile the ballots cast in each precinct in the county to confirm that the number of ballots cast does not exceed the number of registered electors in the precinct; and

(c) Certify the abstract of votes cast in any election and transmit the certification to the secretary of state. A majority of canvass board members' signatures shall be sufficient to certify the abstract of votes cast in any election. When unable to certify the abstract of votes by the majority of the board for any reason, the canvass board shall transmit the noncertified abstract of votes to the secretary of state along with a written report detailing the reason for noncertification.

HISTORY: Source: L. 99: Entire section added, p. 478, § 3, effective July 1. L. 2009: Entire section amended, (HB 09-1336), ch. 261, p. 1199, § 9, effective August 5.

Election Rules - 10.3 Duties of the Canvass Board

10.3.1 The canvass board must make its determinations by majority vote in accordance with section 1-10-101.5(1)(c), C.R.S.

10.3.2 The canvass board's duties are to:

- (a) Conduct the canvass in accordance with section 1-10-101.5, C.R.S., including:
- (1) Account and balance the election and certify the official abstract of votes;
 - (2) Reconcile the number of ballots counted to the number of ballots cast; and
 - (3) Reconcile the number of ballots cast to the number of voters who voted by reviewing the reconciled detailed ballot logs and Statement of Ballots.
- (b) Observe the post-election audit in accordance with section 1-7-514(4), C.R.S., and Election Rule 11-3-3(k);
- (c) In coordination with the county clerk, investigate and report discrepancies found in the audit under section 1-7-514(2), C.R.S.; and
- (d) Conduct any recount in accordance with section 1-10.5-107, C.R.S., and this Rule. The canvass board's role in conducting a recount includes selecting ballots for the random test, observing the recounting of ballots, and certifying the results.

10.3.3 If the board identifies a discrepancy in a Statement of Ballots form, the board may review the particular ballots at issue to identify, correct, and account for the error.

10.3.4 The canvass board may not perform duties typically reserved for election judges, including:

- (a) Determining voter intent;
- (b) Evaluating voter eligibility; and
- (c) Requesting new logs or reports that were not created to conduct the election.

10.3.5 Role of Watchers. Watchers appointed under section 1-10-101(1)(a), C.R.S., may observe the board while it performs its duties, subject to Rule 8.

10.4 Procedures for the day of the Canvass

10.4.1 The designated election official must provide the following information to the canvass board:

- (a) The name of each candidate, office, and votes received;
- (b) The number or letter of each ballot issue or question and votes received;
- (c) The number of ballots cast, including the number of accepted and rejected mail ballots;
- (d) The number of provisional ballots cast, including the number accepted and rejected;
- (e) The number of mail ballots counted and the number rejected;
- (f) The number of in-person ballots counted;

- (g) The number of provisional ballots counted and the number rejected listed by each rejection code; and
- (h) The number of damaged and spoiled ballots.

10.4.2 Any written documentation regarding official results must be included as part of the canvass.

10.4.3 Written Complaints

- (a) The designated election official must provide the canvass board with any written complaint submitted by a registered elector about a voting device.
- (b) If the complaint is resolved, the designated election official must provide the details of the resolution.
- (c) If the complaint is pending resolution when the board meets to conduct the canvass, the designated election official must provide a proposal for how the issue will be resolved.

10.5 Official Abstract and Reporting to the Secretary of State

10.5.1 The official county abstract must include, by precinct or ballot style, where applicable:

- (a) The total number of active registered electors on election day;
- (b) The total number of registered electors (active and inactive) on election day;
- (c) The statement of votes counted by race and ballot question or issue; and
- (d) The total number of ballots cast in the election.

10.5.2 A county must submit the state portion of the abstract and the ENR upload required by Rule 11.10.5 to the Secretary of State in the format approved by the Secretary of State. The state portion of the abstract must include:

- (a) The summary of votes cast for each state race and each ballot question or issue and
- (b) The total number of ballots cast in the election.

10.6 The County Abstract is the Official Permanent Record

10.6.1 The designated election official must keep all official canvass reports and forms as part of the official permanent election record.

10.6.2 Once the canvass board certifies the abstract it may not withdraw the certification. In the event of a recount, the canvass board may only affirm or amend the abstract.