

2023 Coordinated Post-Election Risk-Limiting Audit

November 18, 2023

Agenda

- Introductions
- History of Post-Election Audits in CO
- What is a Risk-Limiting Audit
- How the RLA Works
- Preparing for the RLA
- Audit and Canvass Board Duties
- Conducting the Audit

History of Post-Election Audits in CO

- Before 2017, Colorado law required county clerks to conduct random post-election audits after Election Day and before certifying official results
- Starting in 2017, Colorado law required counties to conduct risk-limiting audits (RLAs)
- The Secretary of State (SOS) publishes Election Rules specifying the manner in which RLAs must be conducted
- Colorado was the first state in the nation to conduct and now require a statewide RLA

What is a Risk-Limiting Audit (RLA)

- A post-election audit that provides:
 - Strong statistical evidence that the election outcome is correct and has a high probability of identifying an incorrect outcome
 - The public with evidence that election outcomes reflect the votes cast by voters on their paper ballots
- It limits the risk that an incorrect election tabulation outcome will escape discovery
- The audit process reviews how a random sample of ballots' votes were captured at the time they were processed by comparing the recorded votes in the Cast Vote Record (CVR) (i.e., the voting system report that lists the individual votes cast for each ballot) to the actual physical paper ballots
- RLAs are conducted in 63 of 64 CO counties (San Juan is a hand-count county)

How the RLA Works

- Physically pull the random paper ballots assigned by the SOS
- Record the votes from the individual paper ballots into the RLA software
- The software compares the votes recorded to the votes captured in the Cast Vote Record (CVR)
- The software identifies any discrepancies found
- If a discrepancy is found, we address it in coordination with the State
- As it is a statewide audit, additional rounds may be required even if Boulder County has no discrepancies

Preparing for the RLA

Secretary of State

- Maintains the software used by counties to conduct the risk-limiting audit
- Establishes the random seed (public meeting w/the dice roll)
- The random seed is applied to the Cast Vote Record to determine the unique ballots for each county to pull

Boulder County

- Ballots have no unique identifying numbers on them when printed
- During the scan process, a unique identifying number is imprinted on each ballot
- This unique number is captured in the Cast Vote Record along with the individual votes from that ballot
- The Cast Vote Record file is securely submitted to the State on the 9th day following the election (after military/overseas mail and cure deadline)

Audit and Canvass Board Duties

C.R.S 1-7-515 and Election Rule 25

Audit Board

- Complete the election judge oath
- Verify that the seals on the appropriate storage containers are those recorded on the applicable chain-of-custody logs
- At least two Audit Board members of different parties will observe the location and retrieval of ballots by county staff from the appropriate storage containers. Other teams will start auditing.
- If applicable, interpret voter markings on ballots selected for audit in accordance with the SOS Voter Intent Guide
- Sign and date a report of the results of the RLA

Canvass Board

- Observe at least the first round of audit

Conducting the Audit

Audited Contests

Statewide

- Proposition HH (STATUTORY) - Vote For 1

Boulder County

- City of Boulder Ballot Question 302 - Vote For 1

Conducting the Audit

- Nine bipartisan Audit Board Teams and RLA application operators
- 1st Audit Board member read ballot markings aloud, Operator records, 2nd Audit Board member confirms recorded markings match paper ballot
- Approximately 13 ballots per "tray." One team will need to audit a second tray.
- Reference information (if needed):
 - Voter Intent Guide
 - Duplication information
- Tips - accuracy, verify information, focus, noise
- Observing and watching are silent activities
- Questions from Audit Board?

Questions?

- To facilitate the timely completion of the RLA process questions should be directed as follows:
 - Questions about the RLA process from audit or canvass board members can be directed to Josh Hansen
 - Watchers may direct their questions to our Watcher Host
 - Observers may direct their questions to our Elections Director, Stephanie Gnoza
 - For general questions about the election process please email vote@bouldercounty.gov
 - Questions about the RCV RLA process will be addressed Monday

Boulder County Audit Report
Generated 11/18/2023 03:22 PM
Coordinated Election - 11/07/2023

Audit Random Seed 09175059342981586505
Audit Risk Limit 0.030

Total Ballot Cards In Manifest 119772
Total CVRs in CVR Export File 119772
Total Ballot Cards Audited 123
Number of Audit Rounds 1

Round Summary	1	Total
Ballot Cards Audited	123	123
Discrepancies (Audited Contests)	0	0
Discrepancies (Non-Audited Contests)	1	1
Disagreements (Audited Contests)	0	0
Disagreements (Non-Audited Contests)	0	0

Audited Contests

Proposition HH (Statutory) - Vote For 1	Choice	W/L	Votes	Margin	Diluted Margin %
	Yes/For	W	68983	20602	17.20101526
	No/Against	L	48381		

City of Boulder Ballot Question 302 - Vote For 1	Choice	W/L	Votes	Margin	Diluted Margin %
	Yes/For	W	20261	7288	6.08489463
	No/Against	L	12973		

Round 1

Ballot Cards Audited

123

Unaudited Contest

Discrepancies Recorded

1

No Disagreements Recorded

Ballot Cards Selected

Imprinted ID	Audited	Discrepancy	Disagreement
101-1-83	Yes	No	No
101-16-69	Yes	No	No
101-17-60	Yes	No	No
101-17-114	Yes	No	No
101-18-31	Yes	No	No
101-27-86	Yes	No	No
101-33-136	Yes	No	No
101-34-51	Yes	No	No
101-35-71	Yes	No	No
101-39-25	Yes	No	No
101-42-109	Yes	No	No
101-59-58	Yes	No	No
101-67-101	Yes	No	No
101-71-120	Yes	No	No
101-74-76	Yes	No	No
101-80-99	Yes	No	No
101-80-116	Yes	No	No
101-80-134	Yes	No	No
101-82-133	Yes	No	No
101-86-12	Yes	No	No
101-91-111	Yes	No	No
101-109-14	Yes	No	No
101-110-74	Yes	No	No
101-115-26	Yes	No	No
101-129-138	Yes	No	No
101-133-98	Yes	No	No
101-139-73	Yes	No	No
101-143-76	Yes	No	No
101-145-117	Yes	No	No
101-150-145	Yes	No	No
101-154-141	Yes	No	No
101-155-45	Yes	No	No
101-155-50	Yes	No	No
101-164-43	Yes	No	No

101-171-81	Yes	No	No
101-186-39	Yes	No	No
102-2-104	Yes	No	No
102-3-17	Yes	No	No
102-6-3	Yes	No	No
102-6-20	Yes	No	No
102-10-78	Yes	No	No
102-20-1	Yes	No	No
102-30-132	Yes	No	No
102-79-11	Yes	No	No
102-81-45	Yes	No	No
102-86-68	Yes	No	No
102-86-147	Yes	No	No
102-87-41	Yes	No	No
102-92-105	Yes	No	No
102-106-22	Yes	No	No
102-108-96	Yes	No	No
102-109-143	Yes	No	No
102-112-20	Yes	No	No
102-118-6	Yes	No	No
102-118-136	Yes	No	No
102-119-40*	Yes	Yes	No
*Discrepancy due to confirmed audit board error with input to the RLA software. <i>mcj/w SP</i>			
102-122-139	Yes	No	No
102-131-84	Yes	No	No
102-133-46	Yes	No	No
102-146-57	Yes	No	No
102-147-13	Yes	No	No
102-154-50	Yes	No	No
102-157-91	Yes	No	No
102-171-77	Yes	No	No
102-176-57	Yes	No	No
102-179-10	Yes	No	No
102-179-37	Yes	No	No
102-185-134	Yes	No	No
102-200-63	Yes	No	No
102-205-124	Yes	No	No
102-212-27	Yes	No	No
103-15-33	Yes	No	No
103-23-31	Yes	No	No
103-31-41	Yes	No	No
103-49-65	Yes	No	No
103-52-19	Yes	No	No
103-54-37	Yes	No	No

103-58-22	Yes	No	No
103-63-66	Yes	No	No
103-65-50	Yes	No	No
103-68-115	Yes	No	No
103-76-83	Yes	No	No
104-10-116	Yes	No	No
104-13-102	Yes	No	No
104-20-108	Yes	No	No
104-44-62	Yes	No	No
104-45-16	Yes	No	No
104-54-30	Yes	No	No
105-10-145	Yes	No	No
105-17-113	Yes	No	No
105-21-43	Yes	No	No
105-21-97	Yes	No	No
105-23-27	Yes	No	No
105-24-81	Yes	No	No
105-35-97	Yes	No	No
105-48-63	Yes	No	No
105-50-61	Yes	No	No
106-21-14	Yes	No	No
106-23-44	Yes	No	No
106-40-134	Yes	No	No
106-41-101	Yes	No	No
106-45-145	Yes	No	No
106-48-71	Yes	No	No
106-66-22	Yes	No	No
106-68-88	Yes	No	No
106-77-87	Yes	No	No
106-79-43	Yes	No	No
106-82-115	Yes	No	No
106-87-107	Yes	No	No
108-7-78	Yes	No	No
108-10-61	Yes	No	No
108-21-108	Yes	No	No
108-23-150	Yes	No	No
108-59-113	Yes	No	No
108-71-72	Yes	No	No
108-77-148	Yes	No	No
108-79-37	Yes	No	No
108-81-77	Yes	No	No
108-85-98	Yes	No	No
108-93-62	Yes	No	No
108-100-52	Yes	No	No

108-103-99

Yes

No

No

108-104-89

Yes

No

No



Affirmation

We hereby affirm that the results presented in this report are accurate to the best of our knowledge.

Round 1

Audit board 1:	Valerie Walsh	Janet Davis
Audit board 2:	Julie Kaewert	Beth Utton
Audit board 3:	Diana Bara	Stan Gelb
Audit board 4:	Lynne McNamara	Kathryn Porterfield
Audit board 5:	Julie Walls	Tosha Renee
Audit board 6:	Twyla Barrett	George Craft
Audit board 7:	Jennifer Loper	Greg Morrissey
Audit board 8:	Cathy Jarrett	Margaret Alfonso
Audit board 9:	Kathleen Ludwig	Regina Richardson
Audit board 10:	Lynne McNamara	Kathryn Porterfield

Acting
County Clerk



2023 Coordinated Post-Election Ranked Choice Voting Risk Limiting Audit

November 20, 2023

Agenda

- Introductions
- Ranked Choice Voting / Instant Runoff Audit Statute and Rule
- What is a Risk-Limiting Audit
- How the RCV RLA Works
- Preparing for the RCV RLA
- Audit and Canvass Board Duties
- Conducting the RCV Audit

Ranked Choice Voting /Instant Runoff Audit Statute and Rule

- City of Boulder Mayoral contest was conducted using ranked choice voting (RCV) and, as a single-winner contest, is an Instant Runoff voting (IRV) type of ranked choice voting method
- Colorado Election statute and rule address the responsibility for auditing an RCV/IRV contest as follows:
 - CRS 1-7-515(4)(b)(II) - A county shall audit an election using instant runoff voting conducted as part of a coordinated election before January 1, 2025, in accordance with rules adopted by the secretary of state related to ranked choice or instant runoff voting, or, if no such rules are adopted, in accordance with procedures adopted by the county clerk and recorder.
 - Rule 26.9 - The designated election official must audit each ranked voting race before the canvass board certifies official election results in a manner which will not interfere with the audit required by section 1-7-515, C.R.S.

What is a Risk-Limiting Audit (RLA)

- A post-election audit that provides:
 - Strong statistical evidence that the election outcome is correct and has a high probability of identifying an incorrect outcome
 - The public with evidence that election outcomes reflect the votes cast by voters on their paper ballots
- It limits the risk that an incorrect election tabulation outcome will escape discovery
- The audit process reviews how a random sample of ballots' votes were captured at the time they were processed by comparing the recorded votes in the Cast Vote Record (CVR) (i.e., the voting system report that lists the individual votes cast for each ballot) to the actual physical paper ballots
- It is for these reasons Boulder County elected to perform a risk limiting audit for the Ranked Choice Voting contest

How our RCV RLA was developed

- Researched RCV auditing practices and tools, and consulted with toolset developers and auditing experts
- Consulted with election officials and others who have participated in a post-election RCV contest audit process
- Maintained consistency with current RLA process, including:
 - Bi-partisan Audit Board participation
 - Risk limit
 - Random seed and ballot selection
 - Comparison of physical ballot to Cast Vote Record (CVR)
- The CO Secretary of State's Office's current Risk Limiting Audit (RLA) toolset does not currently accommodate RCV contest auditing

How our RCV RLA works

- Using our open-source RCV RLA software tool and SOS seed, randomly identify a list of ballots to be audited
- Physically pull the paper ballots identified
- Record the votes from the individual paper ballots into the RLA software
- The software compares the votes recorded to the votes captured in the Cast Vote Record (CVR)
- The software identifies any discrepancies found
- If a discrepancy is found, they will be reviewed with the Audit Board to identify the cause
- Depending on the cause of the discrepancy this may lead to a second round

Audit and Canvass Board Duties

C.R.S 1-7-515 and Election Rule 25

While not mandatory, Boulder County has elected to maintain the same Audit and Canvass Board duties for the RCV RLA as for the Statewide RLA

Audit Board

- Complete the election judge oath (Completed Saturday, 11/18)
- Verify that the seals on the appropriate storage containers are those recorded on the applicable chain-of-custody logs
- At least two Audit Board members of different parties will observe the location and retrieval of ballots by county staff from the appropriate storage containers. (Completed Saturday, 11/18)
- If applicable, interpret voter markings on ballots selected for audit in accordance with the SOS Voter Intent Guide
- Sign and date a report of the results of the RLA

Canvass Board

- Observe at least the first round of audit

Conducting the RCV Audit

- Six bipartisan Audit Board Teams and RLA application operators
- 1st Audit Board member read ballot markings aloud, Operator records, 2nd Audit Board member confirms recorded markings match paper ballot
- Approximately 37 ballots per “tray.”
- Reference information (if needed):
 - Voter Intent Guide and RCV Addendum
 - Duplication information
- Tips – accuracy, verify information, focus, noise
- Observing and watching are silent activities
- Questions from Audit Board?

Questions?

- To facilitate the timely completion of the RLA process questions should be directed as follows:
 - Questions about the RLA process from audit or canvass board members can be directed to Josh Hansen
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Boulder County Audit Report - Ranked Choice Voting
City of Boulder Mayoral Candidates - Instant Runoff Voting
Generated 11/20/2023 - 10:01:40 AM
Coordinated Election - 11/07/2023

Audit Random Seed 09175059342981586505
Audit Risk Limit 0.030

Total Ballot Cards In Manifest 119772
Total CVRs in CVR Export File 119772
Total Ballot Cards Audited 232
Number of Audit Rounds

Round Summary	1	Total	
Ballot Cards Audited	232		232
Discrepancies (Audited Contests)	0		0
Discrepancies (Non-Audited Contests)	N/A	N/A	
Disagreements (Audited Contests)	0		0
Disagreements (Non-Audited Contests)	N/A	N/A	

Audited Contests

City of Boulder Mayor - Rank up to 4

Choice	W/L	Votes - Final Round	Margin	Diluted Margin %
Aaron Brockett	W	16823	1231	51.900
Nicole Speer	L	0		
Bob Yates	L	15592		
Paul Tweedlie	L	0		

Round 1

Ballot Cards Audited 232

No. Discrepancies Recorded 0

No. Disagreements Recorded 0

Ballot Cards Selected

Imprinted ID	Audited	Discrepancy	Disagreement
101-107-91	Yes	No	No
101-107-93	Yes	No	No
101-130-139	Yes	No	No
101-133-90	Yes	No	No
101-135-105	Yes	No	No
101-135-52	Yes	No	No
101-136-140	Yes	No	No
101-138-16	Yes	No	No
101-138-83	Yes	No	No
101-150-116	Yes	No	No
101-151-18	Yes	No	No
101-157-75	Yes	No	No
101-158-1	Yes	No	No
101-17-136	Yes	No	No
101-184-125	Yes	No	No
101-184-43	Yes	No	No
101-190-23	Yes	No	No
101-190-373	Yes	No	No
101-24-10	Yes	No	No
101-26-124	Yes	No	No
101-30-44	Yes	No	No
101-32-71	Yes	No	No
101-4-117	Yes	No	No
101-53-143	Yes	No	No
101-6-66	Yes	No	No
101-61-122	Yes	No	No
101-61-147	Yes	No	No
101-63-111	Yes	No	No
101-63-88	Yes	No	No
101-74-22	Yes	No	No
101-74-69	Yes	No	No
101-74-70	Yes	No	No
101-8-11	Yes	No	No
101-81-45	Yes	No	No

101-87-126	Yes	No	No
101-87-75	Yes	No	No
101-94-65	Yes	No	No
101-96-29	Yes	No	No
101-97-31	Yes	No	No
102-100-13	Yes	No	No
102-100-65	Yes	No	No
102-114-47	Yes	No	No
102-117-50	Yes	No	No
102-124-48	Yes	No	No
102-126-113	Yes	No	No
102-130-6	Yes	No	No
102-132-90	Yes	No	No
102-133-58	Yes	No	No
102-138-127	Yes	No	No
102-139-55	Yes	No	No
102-145-13	Yes	No	No
102-152-70	Yes	No	No
102-155-102	Yes	No	No
102-156-28	Yes	No	No
102-156-38	Yes	No	No
102-156-4	Yes	No	No
102-156-78	Yes	No	No
102-157-89	Yes	No	No
102-158-144	Yes	No	No
102-158-2	Yes	No	No
102-171-125	Yes	No	No
102-172-127	Yes	No	No
102-176-86	Yes	No	No
102-176-9	Yes	No	No
102-181-126	Yes	No	No
102-181-34	Yes	No	No
102-182-110	Yes	No	No
102-182-122	Yes	No	No
102-184-103	Yes	No	No
102-184-136	Yes	No	No
102-184-29	Yes	No	No
102-184-76	Yes	No	No
102-190-26	Yes	No	No
102-190-97	Yes	No	No
102-195-19	Yes	No	No
102-195-31	Yes	No	No
102-196-142	Yes	No	No
102-209-52	Yes	No	No

102-214-139	Yes	No	No
102-23-50	Yes	No	No
102-3-134	Yes	No	No
102-3-53	Yes	No	No
102-31-53	Yes	No	No
102-31-84	Yes	No	No
102-32-25	Yes	No	No
102-32-52	Yes	No	No
102-32-95	Yes	No	No
102-32-96	Yes	No	No
102-34-39	Yes	No	No
102-36-7	Yes	No	No
102-48-137	Yes	No	No
102-5-140	Yes	No	No
102-50-111	Yes	No	No
102-50-90	Yes	No	No
102-51-125	Yes	No	No
102-60-38	Yes	No	No
102-63-19	Yes	No	No
102-63-46	Yes	No	No
102-67-56	Yes	No	No
102-67-60	Yes	No	No
102-68-120	Yes	No	No
102-69-113	Yes	No	No
102-69-114	Yes	No	No
102-69-149	Yes	No	No
102-86-120	Yes	No	No
102-86-97	Yes	No	No
102-92-127	Yes	No	No
102-92-59	Yes	No	No
102-95-29	Yes	No	No
102-95-91	Yes	No	No
102-96-111	Yes	No	No
102-96-37	Yes	No	No
102-97-1	Yes	No	No
102-97-93	Yes	No	No
102-98-108	Yes	No	No
102-98-113	Yes	No	No
103-15-112	Yes	No	No
103-15-46	Yes	No	No
103-21-133	Yes	No	No
103-21-47	Yes	No	No
103-24-36	Yes	No	No
103-26-53	Yes	No	No

103-28-117	Yes	No	No
103-28-136	Yes	No	No
103-28-148	Yes	No	No
103-28-63	Yes	No	No
103-33-118	Yes	No	No
103-33-27	Yes	No	No
103-33-49	Yes	No	No
103-33-95	Yes	No	No
103-37-148	Yes	No	No
103-37-38	Yes	No	No
103-47-131	Yes	No	No
103-47-14	Yes	No	No
103-47-85	Yes	No	No
103-47-88	Yes	No	No
103-49-15	Yes	No	No
103-53-137	Yes	No	No
103-55-43	Yes	No	No
103-55-86	Yes	No	No
103-74-3	Yes	No	No
103-75-48	Yes	No	No
103-77-138	Yes	No	No
104-10-49	Yes	No	No
104-11-62	Yes	No	No
104-13-1	Yes	No	No
104-27-130	Yes	No	No
104-33-35	Yes	No	No
104-33-91	Yes	No	No
104-46-129	Yes	No	No
104-46-43	Yes	No	No
104-47-24	Yes	No	No
104-48-111	Yes	No	No
104-54-122	Yes	No	No
104-55-99	Yes	No	No
105-20-43	Yes	No	No
105-20-86	Yes	No	No
105-27-97	Yes	No	No
105-36-134	Yes	No	No
105-37-122	Yes	No	No
105-37-18	Yes	No	No
105-42-59	Yes	No	No
105-43-16	Yes	No	No
105-43-98	Yes	No	No
105-44-91	Yes	No	No
105-46-138	Yes	No	No

106-14-82	Yes	No	No
106-19-122	Yes	No	No
106-37-12	Yes	No	No
106-37-32	Yes	No	No
106-37-65	Yes	No	No
106-39-130	Yes	No	No
106-39-136	Yes	No	No
106-39-24	Yes	No	No
106-40-90	Yes	No	No
106-41-131	Yes	No	No
106-42-101	Yes	No	No
106-42-113	Yes	No	No
106-51-114	Yes	No	No
106-52-113	Yes	No	No
106-60-70	Yes	No	No
106-60-77	Yes	No	No
106-61-116	Yes	No	No
106-61-5	Yes	No	No
106-61-9	Yes	No	No
106-62-30	Yes	No	No
106-62-89	Yes	No	No
106-69-118	Yes	No	No
106-69-20	Yes	No	No
106-69-5	Yes	No	No
106-8-100	Yes	No	No
106-8-135	Yes	No	No
106-8-71	Yes	No	No
106-91-58	Yes	No	No
106-91-91	Yes	No	No
107-1-68	Yes	No	No
107-2-108	Yes	No	No
107-2-111	Yes	No	No
108-1-118	Yes	No	No
108-1-139	Yes	No	No
108-1-33	Yes	No	No
108-105-2	Yes	No	No
108-11-82	Yes	No	No
108-111-75	Yes	No	No
108-112-136	Yes	No	No
108-112-86	Yes	No	No
108-15-16	Yes	No	No
108-15-90	Yes	No	No
108-20-139	Yes	No	No
108-23-40	Yes	No	No

108-24-125	Yes	No	No
108-26-3	Yes	No	No
108-3-88	Yes	No	No
108-34-19	Yes	No	No
108-34-4	Yes	No	No
108-34-8	Yes	No	No
108-60-29	Yes	No	No
108-69-11	Yes	No	No
108-75-141	Yes	No	No
108-75-50	Yes	No	No
108-76-22	Yes	No	No
108-76-26	Yes	No	No
108-79-118	Yes	No	No
108-79-39	Yes	No	No
108-90-34	Yes	No	No
108-95-6	Yes	No	No
110-1-37	Yes	No	No
110-1-99	Yes	No	No
110-4-130	Yes	No	No
110-4-27	Yes	No	No
110-5-4	Yes	No	No
110-5-82	Yes	No	No

Affirmation

We hereby affirm that the results presented in this report are accurate to the best of our knowledge.

Round 1

[Redacted]

[Redacted]

Audit board 1: Valerie Walsh

Janet Davis

[Redacted]

[Redacted]

Audit board 2: Margaret Alfonso

Gregory Morrissey

[Redacted]

[Redacted]

Audit board 3: Twyla Banett

George Craft

[Redacted]

[Redacted]

Audit board 4: Kathleen Ludwig

Regina Richards

[Redacted]

[Redacted]

Audit board 5: Lynne McNamara

Julie Kalwert

[Redacted]

[Redacted]

Audit board 6: Tosha Renee

Julie Walls

Deputy County Clerk

[Redacted]



2023 Coordinated Election Canvass Board Meeting

November 28, 2023

Agenda

- Introductions and Meeting Protocol
- Duties of Canvass Board (checklist)
- Risk Limiting Audit
- Ballot Reconciliation Summaries
- First and Second Floor Ballot Processing Summaries
- VSPC Statement of Ballots Summary
- Scan Room Summary
- Duties of Canvass Board (recap)
- Presentation Q & A
- Certification (poll members, certify abstract)

Duties of the Canvass Board

Colorado Revised Statutes - Title 1

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 non-certification.
- Refer to Reconciliation Report, Appendix 1

**Ballots cast means the total number of ballots received by the county clerk in an election (includes accepted and rejected). Ballots cast does not include mail ballot envelopes returned to the county clerk by the U.S. Postal Service as undeliverable.*

Risk Limiting Audit

- Election Rule 10.3.2(b) - the Canvass Board must:
 - Observe the post-election audit in accordance with section 1-7-514(4), C.R.S., and Election Rule 25.2 or 25.3
- CRS 1-7-515(4)(b)(II) and Election Rule 26.9 state that a ranked choice voting race must be audited. While not required in statute or rule, Boulder County set the policy that Canvass Board should observe Round 1 of the ranked choice audit as well.
- Election Rule 10.4 – No canvass board may certify official results until authorized to do by the SOS.
 - Boulder County received authorization on November 20

Boulder County Audit Report		
Generated 11/18/2023 03:22 PM		
Coordinated Election - 11/07/2023		
Audit Random Seed	09175059342981586505	
Audit Risk Limit	0.030	
Total Ballot Cards In Manifest	119772	
Total CVRs in CVR Export File	119772	
Total Ballot Cards Audited	123	
Number of Audit Rounds	1	
Round Summary	1	Total
Ballot Cards Audited	123	123
Discrepancies (Audited Contests)	0	0
Discrepancies (Non-Audited Contests)	1	1
Disagreements (Audited Contests)	0	0
Disagreements (Non-Audited Contests)	0	0

Boulder County Audit Report - Ranked Choice Voting			
City of Boulder Mayoral Candidates - Instant Runoff Voting			
Generated 11/20/2023 - 10:01:40 AM			
Coordinated Election - 11/07/2023			
Audit Random Seed	09175059342981586505		
Audit Risk Limit	0.030		
Total Ballot Cards In Manifest	119772		
Total CVRs in CVR Export File	119772		
Total Ballot Cards Audited	232		
Number of Audit Rounds			
Round Summary	1	Total	
Ballot Cards Audited	232		232
Discrepancies (Audited Contests)	0		0
Discrepancies (Non-Audited Contests)	N/A	N/A	
Disagreements (Audited Contests)	0		0
Disagreements (Non-Audited Contests)	N/A	N/A	

Reconcile Ballots Cast to Counted (County Level)

Ballots Received – Appendix 1

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;

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10- 101.5(a): Ballots Counted - Ballots Cast	1-10- 101.5(b): Ballots Cast - Registered Electors
Total	228,121	21,785	249,906	117,613	2,014	119,627	1,181	120,808	119,627	0	(1,181)	(129,098)
Accepted Provisionals:						3		3				
Rejected Provisionals:							1	1				
Adjusted Totals at Election Close:						119,630	1,182	120,812	119,627	-3		

Reconcile Registered Electors to Ballots Cast

Ballots Received – Appendix 1

1-10-101.5 Duties of the canvass board

(1) The canvass board shall:

(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

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10- 101.5(a): Ballots Counted - Ballots Cast	1-10- 101.5(b): Ballots Cast - Registered Electors
Total	228,121	21,785	249,906	117,613	2,014	119,627	1,181	120,808	119,627	0	(1,181)	(129,098)
				Accepted Provisionals:		3		3				
				Rejected Provisionals:			1	1				
Adjusted Totals at Election Close:				119,630	1,182	120,812	119,627	-3				

Reconcile Ballots Counted to Vote Credit

Ballots Received – Appendix 1

BCCR Responsibility

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10- 101.5(a): Ballots Counted - Ballots Cast	1-10- 101.5(b): Ballots Cast - Registered Electors
Total	228,121	21,785	249,906	117,613	2,014	119,627	1,181	120,808	119,627	0	(1,181)	(129,098)
Accepted Provisionals:						3		3				
Rejected Provisionals:							1	1				
Adjusted Totals at Election Close:						119,630	1,182	120,812	119,627	-3		
Explanation of Differences												
Vote credit exceeds ballots counted by 3 due to acceptance of 3 empty envelopes.											3	
Total											3	

First Floor Reconciled Ballot Summary

In SCORE		
Accepted	Agilis	117,108
	UOCAVA (electronic)	339
	Manual Process	166
	Total Accepted	117,613
Rejected	Agilis	788
	UOCAVA (electronic)	70
	Manual Process	323
	Total Rejected	1,181
Total in SCORE		118,794
Not in SCORE		
Accepted	Property Owner	145
	Total Accepted	145
Rejected	Property Owner	1
	Out of County / State	462
	Total Rejected	463
Total Not in SCORE		608
Total Processed/Received		119,402

Envelopes Sent to 2nd Floor	
Mail	117,274
UOCAVA (electronic)	339
Total SCORE Sent	117,613
Property Owner	145
Total	117,758

Second Floor Reconciled Ballot Summary

Envelopes From 1st Floor

Source: Ballot Accounting System Transport Log Export
Received and Batched

Mail Ballots	116,950 **
UOCAVA (electronic)	339
Other Mail Ballot Types*	469
Total	117,758

Sent to Scan Room

Mail Ballots	117,271
UOCAVA (electronic)	339
Property Owner	145
Total	117,755

Ballots From VSPCs

Source: Ballot Accounting System VSPC Transport Log Export
Received and Batched

ICX	683
Flat	1,331
Flat Provisional	3
Total	2,017

Sent to Scan Room

ICX	683
Flat	1,331
Flat Provisional	3
Total	2,017

GRAND TOTAL **119,772**

Duplication 414

Includes accepted mail ballots duplicated for First Ballot Back (FBB), UOCAVA, Accessible, Emergency, and Statewide Ballots.

Notes

* Other Mail Ballot Types include: FBB, VIPS, Manual Process, Statewide, Accessible, Emergency, and Property Owner Ballots.

** 3 mail ballots were received and batched, but did not contain ballots. Scanned will be 3 lower than received.

VSPC Statement of Ballots Summary

2023 Boulder County Coordinated Election - Statement of Ballots Summary

VSPC Location	SCORE				Ballot Printing											Forms				Flat Ballot Count	ICX Ballot Count
	In-Person Paper	In-Person ICX	Mail	Total Issued	Printed					Inactive						In-Person Paper	In-Person ICX	Mail	Total Forms		
					In-Person Paper	In-Person ICX	Mail	Provisional	Total Printed	In-Person Paper	In-Person ICX	Mail	Total Voided*	Net Printed							
Boulder Clerk & Recorder	433	258	248	939	446	267	260	2	975	13	10	12	35	940	439	258	241	938	433	258	
Southeast County Community Hub	180	119	39	338	187	124	40	0	351	7	5	1	13	338	180	119	39	338	181	118	
CU - University Memorial Center	317	177	49	543	326	187	55	0	568	10	9	6	25	543	316	178	49	543	316	178	
St. Vrain Community Hub	401	129	82	612	414	134	87	2	637	14	5	4	23	614	401	129	82	612	401	129	
TOTALS:	1331	683	418	2432	1373	712	442	4	2531	44	29	23	96	2435	1336	684	411	2431	1331	683	

Differences between Total Issued, Net Printed, Total Forms and Ballot Counts are due to:

- 4 Provisional Ballots are not recorded in SCORE or in the forms count, but are included in printed ballot counts (BCCR & SVH)
- 1 mail ballot was issued in SCORE but was not actually printed; voter was instead given a replacement envelope. Envelope and original ballot were received in ballot processing; results in net printed 1 lower than SCORE. (BCCR)

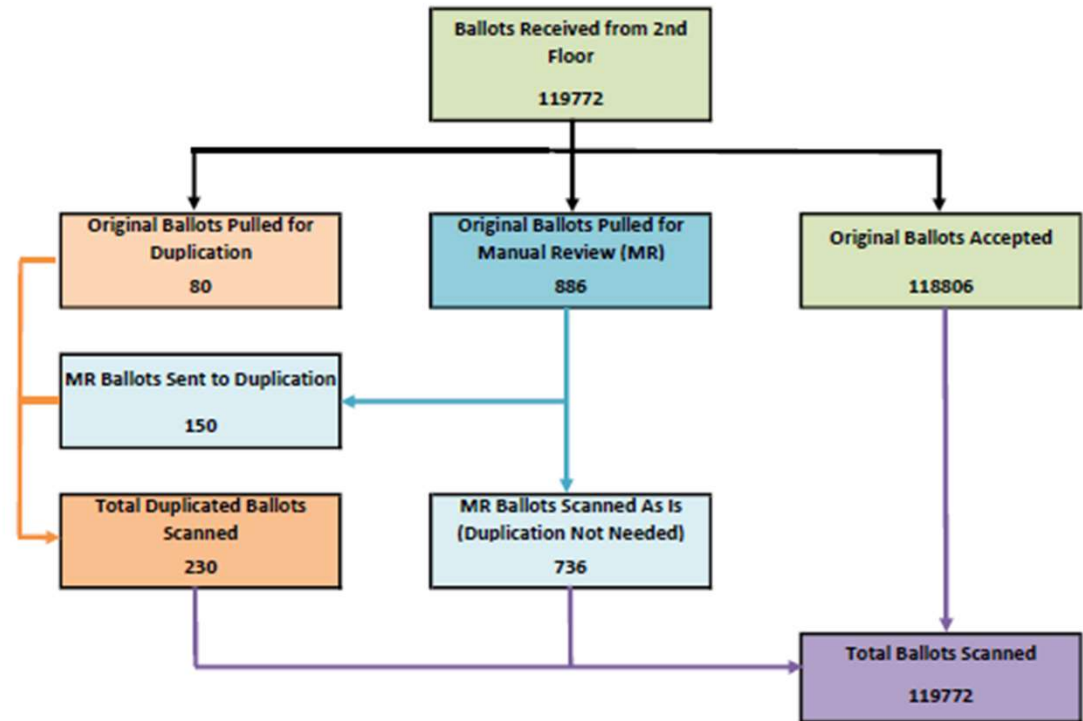
Differences between SCORE and Ballot Counts are due to:

- 1 voter issued in-person ICX vote credit but voted in-person on paper (SE HUB)
- 1 voter issued in-person paper vote credit but voted in-person on ICX (CU UMC)

None of these differences impacted the voter.

Scan Room Reconciled Ballot Summary

System	Ballots Accepted	Original Damaged Ballots Pulled for Duplication	Original Manual Review Ballots Pulled for Review
A	29129	8	245
B	32740	19	235
C	11334	7	93
D	8321	6	72
E	7551	6	45
F	13247	3	97
G	443	0	7
H	15973	31	76
I	0	0	0
J	1034	0	16
Total	119772	80	886



119772 Ballot Processing Count ("Received by Scan Room" in BAS)

119772 ENR "Total Ballots Counted" (Election day and after)

Duties of the Canvass Board - Recap

1-10-101.5(1)(a), Rule 10.3.2(a)(1)

- Confirm that the number of ballots counted in that election does not exceed the number of ballots cast in that election / Reconciling the number of ballots counted to the number of ballots cast

Tally of Ballots Counted	
Precinct Ballots Counted	119,627
Property Owner Ballots Counted	145
Total	119,772

1-10-101.5(1)(b), Rule 10.3.2(a)(2)

- Confirm that the number of ballots cast does not exceed the number of registered electors / Reconciling the number of ballots cast to the number of voters who voted

Registered Electors	
Active Voters	228,121
Inactive Voters	21,785
Total	249,906

Ballots Cast	
Accepted Mail Ballot	117,613
Voted In-Person	2,014
Accepted Provisional	3
Total Accepted	119,630
Rejected Mail Ballot	1,181
Rejected Provisional	1
Total Rejected	1,182
Total Precinct Ballots	120,812
Accepted Property Owner	145
Rejected Property Owner	1
Total Ballots Cast	120,958

Question and Answer



Duties of the Canvass Board

Abstract Certification

1-10-101.5 Duties of the canvass board

(1) The canvass board shall:

(c) Certify the abstract of votes cast in any election and transmit the certification to the secretary of state.

Election Rule 10.6.1

- The official county abstract must include, by precinct or ballot style, where applicable:
 - total number of active registered electors on election day
 - total number of registered elections (active & inactive) on election day
 - statement of votes counted by race & ballot question or issue; and
 - total number of ballots cast in the election

To satisfy these requirements, the Abstract includes:

- Reconciliation Report & Appendix 1
- Statement and Summary of Votes

Thank you!



Boulder County 2023 Coordinated Election

Reconciliation Report

November 7, 2023

OVERVIEW

The purpose of the canvass is to account for every ballot cast and ensure that every valid vote cast is included in the election totals. This involves accounting for every mail ballot, in-person ballot, provisional ballot, rejected ballot, and military and overseas ballot (UOCAVA).

Colorado Revised Statutes, Title 1, 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.

The Canvass Board's duties regarding reconciliation are included in Election Rule 10.3.2(a):

- (a) Conduct the canvass and certify the official abstract of votes in accordance with section 1-10-101.5, C.R.S., by:
 - (1) Reconciling the number of ballots counted to the number of ballots cast; and
 - (2) Reconciling the number of ballots cast to the number of voters who voted.

To reconcile the election, we track voted ballots as they pass through the election process. This report follows Election Rule 10.5 Procedures for Canvass and presents summary data for the overall election, as required by Election Rule 10.5.1, as well as a detailed accounting of ballots on a precinct-by-precinct basis. In addition, references to the data, reports, or documentation listed in the Canvass Board Checklist are available to allow the Canvass Board to fulfill its statutory duty. The reconciliation process focuses on the reception of ballots through the assignment of voter credit.

BALLOTS RECEIVED

Mail ballots are received in several ways:

- Post Office
- Secure 24-hour drop boxes
- Drop-off ballot boxes located at Voter Service and Polling Centers
- Secure drive by drop-off boxes on Election Day

The mail ballot envelopes are signature verified by election judges, accepted or rejected, and recorded accordingly in SCORE. Voted paper ballots from Voter Service and Polling Center (VSPC) locations arrive in separate ballot boxes from mail ballots. Because vote credit was already recorded in SCORE when the voter's ID was verified at the VSPC, these ballots go directly to scanning, adjudication, and tallying after being batched.

Figure 1 illustrates the process by which mail ballots are received, prepared, scanned, tallied, and recorded in the Cast Vote Record (CVR).

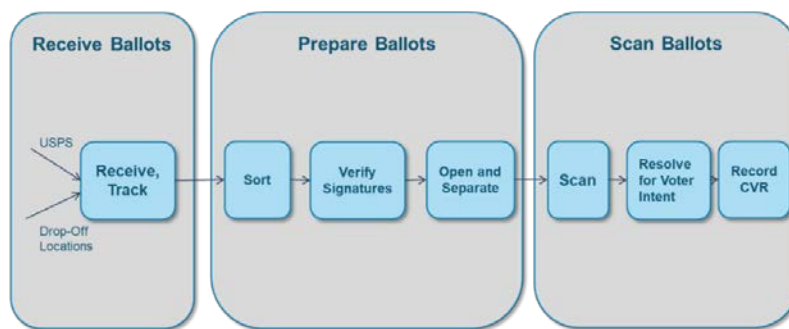


Figure 1

Determining whether a ballot envelope is accepted or rejected is based on several factors. For example, it may be rejected because the signature on the ballot envelope does not match the voters reference signature(s) in their registration record, the ballot envelope may be missing a signature, or the voter was required to return ID with their ballot envelope and failed to do so.

Letters are sent to these voters allowing them to “cure” their ballot envelope by returning a signed affidavit with a copy of their ID (due by the 8th day after the election). Only the ballots contained in accepted envelopes are eligible to proceed through the process to scanning, adjudication, and tallying.

Appendix 1 provides a precinct-by-precinct accounting of eligible voters, ballots cast, and ballots counted. This report fulfills Election Statute 1-10-101.5, and Rule 10.3.2(a). Appendix 1 includes the following sections:

1. Eligible Voters
2. SCORE Voter Credit and Ballots Cast
3. Dominion Ballots (Ballots Counted)
4. Reconciliation

The Eligible Voters section includes both active and inactive voters, providing the total number of registered electors. The SCORE Voter Credit and Ballots Cast section includes the number of mail and in-person ballots accepted in SCORE, as well as the number of rejected mail ballots. The sum of these three categories provides the total number of ballots cast. The Dominion Ballots section reflects the number of ballots counted by the tabulation system. The Reconciliation section compares eligible voters, vote credit, ballots cast, and ballots counted to verify that statutory requirements have been met.

As outlined in Rule 10.5.1, the designated election official must provide the following information to the Canvass Board. This section presents, in order, the information required by rule and cites the source document for the information:

- (a) The name of each candidate, office, and votes received; **(Summary of Votes)**
- (b) The number or letter of each ballot issue or question and votes received; **(Summary of Votes)**
- (c) The total number of ballots cast; **(Appendix 1)**

Ballots Cast	
Accepted Mail Ballot	117,613
Voted In-Person	2,014
Accepted Provisional	3
Total Accepted	119,630
Rejected Mail Ballot	1,181
Rejected Provisional	1
Total Rejected	1,182
Total Precinct Ballots	120,812
Accepted Property Owner	145
Rejected Property Owner	1
Total Ballots Cast	120,958

Figure 2

- (d) The number of provisional ballots cast **(BP-012C)**, including totals for:
 - (1) Ballots accepted by each code; and

Provisional Ballots Accepted	
AOK - Confirmed Voters Eligibility	3
Total	3

Figure 3

- (2) Ballots rejected by each code.

Provisional Ballots Rejected	
RAB - Mail-In Ballot Issued/Voted	1
Total	1

Figure 4

(e) The number of mail ballots cast, including totals for:

(1) Ballots accepted (**Appendix 1**); and

Mail Ballots Accepted	
Total	117,613

Figure 5

(2) Ballots rejected by each code (**BP-012B**).

Mail Ballots Rejected	
Voted More Than One Ballot	9
Convicted Felon	0
Void / Not Voted	6
Voted Wrong Ballot	0
Two Ballots in One Envelope	3
Verification Affidavit Not Complete	3
ID Required - Not Provided	7
No Signature	48
Empty Envelope	66
Received After 7pm on Election Day	299
Signature Discrepancy	740
Total	1,181

Figure 6

(f) The number of in-person ballots counted (**Appendix 1**)

In-Person Ballots Counted	
In-Person Paper	1,331
In-Person BMD	683
Total	2,014

Figure 7

(g) The number of damaged and spoiled ballots.

Damaged/Spoiled Ballot Summary	
Damaged Ballots	230
Spoiled Ballots From VSPCs	37

Figure 8

(h) **Not applicable** - The number of ballots cast in each party's primary election...

(i) If applicable, the ranked voting results report required by section 1-71003(7)(a)(I) and (III), C.R.S. (**RCV Short Report, Statement of Votes**)

STATUTORY REQUIREMENT FULFILLED

Based on the reconciliation activities performed for this canvass and reported herein, it is determined that the requirements of Colorado Revised Statute 1-10-101.5 have been met. As Figure 9 demonstrates, **the number of ballots counted is equal to or less than the number of ballots cast (accepted plus rejected ballots)** and as Figure 10 demonstrates, **the number of ballots cast is equal to or less than the number of registered voters.**

Ballots Cast		Tally of Ballots Counted	
Accepted Mail Ballot	117,613	Precinct Ballots Counted	119,627
Voted In-Person	2,014	Property Owner Ballots Counted	145
Accepted Provisional	3	Total	119,772
Total Accepted	119,630		
Rejected Mail Ballot	1,181		
Rejected Provisional	1		
Total Rejected	1,182		
Total Precinct Ballots	120,812		
Accepted Property Owner Ballots	145		
Rejected Property Owner Ballots	1		
Total Ballots Cast	120,958		

Figure 9

Ballots Cast		Registered Electors	
Accepted Mail Ballot	117,613	Active Voters	228,121
Voted In-Person	2,014	Inactive Voters	21,785
Accepted Provisional	3	Total	249,906
Total Accepted	119,630		
Rejected Mail Ballot	1,181		
Rejected Provisional	1		
Total Rejected	1,182		
Total Precinct Ballots	120,812		
Accepted Property Owner	145		
Rejected Property Owner	1		
Total Ballots Cast	120,958		

Figure 10

Notes:

1. Ballots Cast includes ballots that are ultimately not counted for various reasons. Voters have until 11:59 p.m. on the 8th day following Election Day to “cure” these issues. Not every voter does so in this timeframe. If they do not, their cast ballot is not counted.
2. Active Voters in Figure 10 includes 720 confidential voters. Confidential voters are not included in publicly available reports.
3. All voter registration numbers reported herein are as of Election Day and include active voters who were 18 by the November 2023 Coordinated Election (11/7/2023).

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
002	3	0	3	0	0	0	0	0	0	0	0	(3)
003	3	0	3	0	0	0	0	0	0	0	0	(3)
100	1535	135	1670	771	7	778	17	795	778	0	(17)	(875)
101	1340	107	1447	673	6	679	4	683	679	0	(4)	(764)
102	1154	334	1488	240	10	250	5	255	249	-1	(6)	(1,233)
103	1153	70	1223	606	1	607	9	616	606	-1	(10)	(607)
104	1058	90	1148	542	4	546	6	552	546	0	(6)	(596)
105	1600	153	1753	791	9	800	8	808	800	0	(8)	(945)
106	970	168	1138	496	10	506	5	511	508	2	(3)	(627)
200	1134	99	1233	704	10	714	7	721	714	0	(7)	(512)
201	1103	113	1216	578	6	584	6	590	585	1	(5)	(626)
202	676	70	746	447	14	461	5	466	460	-1	(6)	(280)
203	923	70	993	559	5	564	8	572	565	1	(7)	(421)
204	1532	110	1642	961	7	968	4	972	967	-1	(5)	(670)
205	1010	71	1081	628	6	634	4	638	634	0	(4)	(443)
206	1085	57	1142	681	4	685	10	695	685	0	(10)	(447)
207	1546	40	1586	962	6	968	4	972	968	0	(4)	(614)
208	1067	76	1143	609	4	613	2	615	613	0	(2)	(528)
209	1463	170	1633	711	6	717	10	727	717	0	(10)	(906)
210	1356	130	1486	776	12	788	11	799	788	0	(11)	(687)
211	863	64	927	484	4	488	5	493	488	0	(5)	(434)
212	1248	104	1352	702	6	708	3	711	708	0	(3)	(641)
300	1938	255	2193	870	25	895	8	903	894	-1	(9)	(1,290)
301	1876	116	1992	857	19	876	8	884	876	0	(8)	(1,108)
302	1943	144	2087	1044	14	1058	5	1063	1059	1	(4)	(1,024)
303	976	87	1063	442	5	447	4	451	447	0	(4)	(612)
304	1051	47	1098	632	6	638	8	646	638	0	(8)	(452)
305	1156	102	1258	545	9	554	3	557	554	0	(3)	(701)
306	1263	83	1346	638	12	650	6	656	651	1	(5)	(690)

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
307	1519	175	1694	460	17	477	7	484	477	0	(7)	(1,210)
308	1073	96	1169	555	8	563	7	570	561	-2	(9)	(599)
309	1176	55	1231	654	4	658	8	666	658	0	(8)	(565)
310	1531	105	1636	849	9	858	5	863	858	0	(5)	(773)
311	840	74	914	450	6	456	2	458	456	0	(2)	(456)
312	1004	54	1058	634	6	640	9	649	640	0	(9)	(409)
313	1317	67	1384	806	2	808	7	815	808	0	(7)	(569)
314	1490	64	1554	868	12	880	12	892	880	0	(12)	(662)
315	862	28	890	475	8	483	5	488	483	0	(5)	(402)
316	1332	71	1403	790	7	797	6	803	797	0	(6)	(600)
400	1913	100	2013	868	22	890	11	901	890	0	(11)	(1,112)
401	1562	73	1635	798	4	802	12	814	803	1	(11)	(821)
402	1461	82	1543	832	9	841	9	850	841	0	(9)	(693)
403	1461	102	1563	708	6	714	4	718	713	-1	(5)	(845)
404	1831	111	1942	887	3	890	8	898	890	0	(8)	(1,044)
405	1223	47	1270	742	8	750	7	757	750	0	(7)	(513)
406	1677	98	1775	868	7	875	8	883	875	0	(8)	(892)
407	480	25	505	259	4	263	2	265	263	0	(2)	(240)
408	637	36	673	340	1	341	3	344	342	1	(2)	(329)
500	1219	72	1291	715	7	722	8	730	722	0	(8)	(561)
501	952	35	987	553	6	559	9	568	560	1	(8)	(419)
502	1466	66	1532	866	4	870	11	881	870	0	(11)	(651)
503	593	38	631	237	2	239	2	241	239	0	(2)	(390)
504	2414	312	2726	1209	20	1229	17	1246	1230	1	(16)	(1,480)
505	937	50	987	579	4	583	3	586	583	0	(3)	(401)
506	1468	67	1535	861	10	871	17	888	871	0	(17)	(647)
507	2008	210	2218	1027	20	1047	15	1062	1048	1	(14)	(1,156)
508	1569	49	1618	962	7	969	12	981	969	0	(12)	(637)
509	1610	100	1710	971	9	980	8	988	976	-4	(12)	(722)
510	1228	59	1287	694	3	697	8	705	697	0	(8)	(582)

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
600	1958	242	2200	773	23	796	14	810	797	1	(13)	(1,390)
601	1241	134	1375	470	7	477	8	485	478	1	(7)	(890)
602	918	72	990	447	6	453	4	457	453	0	(4)	(533)
603	1526	77	1603	947	9	956	9	965	954	-2	(11)	(638)
604	1081	73	1154	540	11	551	6	557	550	-1	(7)	(597)
605	1186	64	1250	674	6	680	9	689	680	0	(9)	(561)
606	1595	82	1677	916	7	923	8	931	924	1	(7)	(746)
607	1898	203	2101	906	15	921	12	933	922	1	(11)	(1,168)
608	1541	79	1620	922	9	931	12	943	931	0	(12)	(677)
609	1998	205	2203	725	13	738	8	746	739	1	(7)	(1,457)
610	1894	158	2052	1022	10	1032	11	1043	1032	0	(11)	(1,009)
611	1146	84	1230	625	15	640	7	647	640	0	(7)	(583)
612	1235	107	1342	596	5	601	6	607	601	0	(6)	(735)
613	1180	115	1295	509	10	519	3	522	520	1	(2)	(773)
614	782	71	853	346	4	350	0	350	350	0	0	(503)
615	1853	135	1988	1082	21	1103	8	1111	1102	-1	(9)	(877)
616	1557	192	1749	636	18	654	2	656	654	0	(2)	(1,093)
617	1634	129	1763	496	12	508	8	516	508	0	(8)	(1,247)
618	1526	83	1609	691	4	695	8	703	695	0	(8)	(906)
619	1780	131	1911	911	7	918	6	924	918	0	(6)	(987)
620	1565	121	1686	854	18	872	6	878	873	1	(5)	(808)
621	906	44	950	491	2	493	7	500	492	-1	(8)	(450)
622	1045	101	1146	503	6	509	6	515	509	0	(6)	(631)
623	1812	131	1943	740	18	758	8	766	758	0	(8)	(1,177)
624	1674	131	1805	942	10	952	9	961	953	1	(8)	(844)
625	1211	87	1298	674	9	683	2	685	683	0	(2)	(613)
626	1485	146	1631	724	11	735	6	741	733	-2	(8)	(890)
627	988	33	1021	670	3	673	2	675	673	0	(2)	(346)
628	969	56	1025	628	3	631	3	634	631	0	(3)	(391)
629	1184	89	1273	731	7	738	4	742	737	-1	(5)	(531)

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
630	857	116	973	300	6	306	6	312	306	0	(6)	(661)
631	868	43	911	488	7	495	3	498	495	0	(3)	(413)
632	1045	87	1132	430	7	437	4	441	437	0	(4)	(691)
633	1124	145	1269	306	6	312	2	314	312	0	(2)	(955)
634	1310	74	1384	624	15	639	2	641	639	0	(2)	(743)
635	1217	75	1292	666	4	670	5	675	670	0	(5)	(617)
636	1439	101	1540	746	10	756	6	762	759	3	(3)	(778)
637	1432	114	1546	819	16	835	8	843	834	-1	(9)	(703)
638	1012	55	1067	564	4	568	4	572	569	1	(3)	(495)
639	944	73	1017	450	2	452	3	455	452	0	(3)	(562)
640	1015	103	1118	326	8	334	1	335	334	0	(1)	(783)
641	897	60	957	381	6	387	2	389	387	0	(2)	(568)
642	1314	90	1404	696	4	700	6	706	700	0	(6)	(698)
643	855	90	945	442	6	448	2	450	448	0	(2)	(495)
644	859	67	926	516	4	520	2	522	520	0	(2)	(404)
645	1407	179	1586	684	9	693	8	701	693	0	(8)	(885)
646	749	25	774	481	3	484	2	486	483	-1	(3)	(288)
647	1070	141	1211	462	3	465	1	466	465	0	(1)	(745)
648	1045	60	1105	567	9	576	5	581	576	0	(5)	(524)
649	1813	149	1962	731	18	749	9	758	749	0	(9)	(1,204)
650	1261	132	1393	464	11	475	5	480	475	0	(5)	(913)
651	2050	112	2162	1134	20	1154	12	1166	1154	0	(12)	(996)
700	1280	65	1345	807	3	810	8	818	810	0	(8)	(527)
701	1287	70	1357	759	8	767	16	783	766	-1	(17)	(574)
702	656	19	675	363	5	368	1	369	368	0	(1)	(306)
703	187	6	193	115	0	115	1	116	114	-1	(2)	(77)
704	663	37	700	390	2	392	3	395	392	0	(3)	(305)
705	696	40	736	355	8	363	4	367	363	0	(4)	(369)
800	1075	112	1187	535	9	544	5	549	543	-1	(6)	(638)
801	479	78	557	193	6	199	1	200	199	0	(1)	(357)

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
802	1140	64	1204	687	4	691	4	695	690	-1	(5)	(509)
803	1936	156	2092	848	12	860	9	869	860	0	(9)	(1,223)
804	1468	160	1628	745	11	756	8	764	755	-1	(9)	(864)
805	1165	69	1234	695	5	700	6	706	700	0	(6)	(528)
806	1214	85	1299	742	7	749	11	760	749	0	(11)	(539)
807	1091	55	1146	657	9	666	6	672	666	0	(6)	(474)
808	1382	97	1479	800	16	816	10	826	816	0	(10)	(653)
809	1379	125	1504	647	13	660	11	671	660	0	(11)	(833)
810	755	144	899	324	14	338	4	342	338	0	(4)	(557)
811	1093	172	1265	537	9	546	4	550	546	0	(4)	(715)
812	809	32	841	549	5	554	4	558	553	-1	(5)	(283)
813	1029	85	1114	649	12	661	3	664	660	-1	(4)	(450)
814	844	38	882	555	8	563	4	567	562	-1	(5)	(315)
815	1788	102	1890	1141	15	1156	17	1173	1157	1	(16)	(717)
816	1301	112	1413	806	11	817	8	825	817	0	(8)	(588)
817	1776	187	1963	974	22	996	8	1004	996	0	(8)	(959)
818	1719	301	2020	601	35	636	7	643	637	1	(6)	(1,377)
819	1602	157	1759	777	15	792	4	796	794	2	(2)	(963)
820	1529	304	1833	581	23	604	9	613	602	-2	(11)	(1,220)
821	1104	99	1203	549	12	561	8	569	561	0	(8)	(634)
822	1470	272	1742	706	28	734	5	739	736	2	(3)	(1,003)
823	1174	348	1522	333	41	374	6	380	374	0	(6)	(1,142)
824	926	281	1207	323	19	342	1	343	342	0	(1)	(864)
825	1655	155	1810	981	11	992	6	998	992	0	(6)	(812)
826	882	119	1001	399	21	420	1	421	420	0	(1)	(580)
827	1624	162	1786	930	16	946	11	957	946	0	(11)	(829)
828	681	72	753	396	7	403	5	408	403	0	(5)	(345)
829	1445	664	2109	429	36	465	3	468	465	0	(3)	(1,641)
830	1504	208	1712	862	18	880	14	894	881	1	(13)	(818)
831	1099	601	1700	187	37	224	3	227	224	0	(3)	(1,473)

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
832	1296	530	1826	329	76	405	6	411	406	1	(5)	(1,415)
833	1405	447	1852	400	35	435	3	438	436	1	(2)	(1,414)
834	1140	212	1352	471	30	501	8	509	500	-1	(9)	(843)
835	634	46	680	386	4	390	0	390	391	1	1	(290)
836	600	84	684	308	6	314	2	316	314	0	(2)	(368)
837	711	86	797	424	5	429	3	432	430	1	(2)	(365)
838	1177	71	1248	691	9	700	6	706	700	0	(6)	(542)
839	1316	87	1403	790	7	797	5	802	797	0	(5)	(601)
840	1794	207	2001	1017	19	1036	15	1051	1037	1	(14)	(950)
841	941	324	1265	335	37	372	3	375	372	0	(3)	(890)
842	978	200	1178	475	24	499	6	505	500	1	(5)	(673)
843	1309	212	1521	582	25	607	8	615	606	-1	(9)	(906)
844	1023	68	1091	591	11	602	8	610	601	-1	(9)	(481)
845	1681	129	1810	978	19	997	6	1003	997	0	(6)	(807)
846	778	102	880	481	9	490	4	494	490	0	(4)	(386)
847	928	162	1090	383	22	405	4	409	404	-1	(5)	(681)
848	789	113	902	306	14	320	2	322	320	0	(2)	(580)
849	1030	123	1153	490	13	503	7	510	503	0	(7)	(643)
850	1324	198	1522	692	17	709	10	719	709	0	(10)	(803)
851	611	73	684	308	10	318	4	322	318	0	(4)	(362)
852	658	39	697	431	5	436	2	438	436	0	(2)	(259)
853	772	46	818	464	4	468	9	477	468	0	(9)	(341)
854	860	42	902	574	5	579	4	583	579	0	(4)	(319)
855	1279	70	1349	804	9	813	4	817	813	0	(4)	(532)
856	1566	100	1666	991	15	1006	10	1016	1006	0	(10)	(650)
857	929	68	997	602	6	608	4	612	608	0	(4)	(385)
900	490	46	536	253	3	256	4	260	256	0	(4)	(276)
901	1020	64	1084	473	7	480	8	488	480	0	(8)	(596)
902	315	26	341	161	2	163	3	166	163	0	(3)	(175)
903	712	52	764	386	7	393	4	397	394	1	(3)	(367)

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors
904	1213	104	1317	602	4	606	8	614	605	-1	(9)	(703)
905	535	44	579	262	4	266	2	268	265	-1	(3)	(311)
906	552	59	611	267	6	273	1	274	273	0	(1)	(337)
907	941	76	1017	504	11	515	2	517	514	-1	(3)	(500)
908	425	45	470	196	2	198	0	198	198	0	0	(272)
909	591	48	639	310	4	314	1	315	315	1	0	(324)
910	678	58	736	329	11	340	8	348	339	-1	(9)	(388)
911	930	66	996	558	7	565	10	575	565	0	(10)	(421)
912	1806	104	1910	1086	12	1098	6	1104	1099	1	(5)	(806)
913	620	37	657	311	1	312	4	316	312	0	(4)	(341)
914	506	50	556	264	3	267	2	269	267	0	(2)	(287)
915	1322	93	1415	789	9	798	11	809	799	1	(10)	(606)
916	1200	69	1269	698	13	711	8	719	711	0	(8)	(550)
Total	228,121	21,785	249,906	117,613	2,014	119,627	1,181	120,808	119,627	0	(1,181)	(129,098)

Accepted Provisionals:	3		3
Rejected Provisionals:		1	1

Adjusted Totals at Election Close:	119,630	1,182	120,812	119,627	-3
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Explanation of Differences	
Vote credit exceeds ballots counted by 3 due to acceptance of 3 empty envelopes.	3
Total	3

Appendix 1 - Ballots Received

Eligible Voters (EX003 - SCORE Registered Voter List)				SCORE Voter Credit And Ballots Cast					Dominion Ballots	Reconciliation		
Precinct	Active Voters	Inactive Voters	Registered Electors	Accepted Mail-In	Accepted In-Person	Vote Credit	Rejected Mail-In	Ballots Cast	Ballots Counted	Difference: Ballots Counted - Vote Credit	1-10-101.5(a): Ballots Counted - Ballots Cast	1-10-101.5(b): Ballots Cast - Registered Electors

Non-Resident Special District Property Owner Ballots				
	Special District	Accepted	Rejected	Cast
	Nederland Eco Pass Public Improvement	145	1	146
	North Metro Fire Rescue District	0	0	0
	Total	145	1	146

Note: Precinct-to-Precinct differences in the "Difference" column above can be explained as follows:

By Colorado law, the first ballot back from a voter is the ballot that must be counted. If the voter has changed their registration to a county or district different from the ballot that they returned, their returned ballot is duplicated onto a ballot reflecting their new residence, and only the common contests voted are counted (when eligible contests, i.e., ballot styles are different).

An example of this can be seen in precincts 912 and 604. A voter moved to precinct 912 but returned their 604 ballot. The 604 ballot was duplicated onto a 912 ballot style before being scanned. However, the accepted ballot in SCORE is reflected as the 604 ballot, which would then be included in the aggregate total for precinct 604. Therefore, SCORE voter credit is showing 1 higher for 604 than Dominion, and Dominion is showing 1 higher for 912 than SCORE.

Additionally, there will be a difference related to the provisional ballots counted because no SCORE voter credit is given for them until the election is closed.



Boulder County Certification of 2023 Coordinated Election

I, Sydney Power, the Boulder County Deputy Clerk and Recorder, do hereby certify the Official Abstract of Votes Cast attached herein for the 2023 Coordinated Election held in Boulder County on the 7 of November 2023.

We the undersigned Canvass Board for the 2023 Coordinated Election, do hereby certify that:

- We have observed the post-election risk-limiting audit
- We have reconciled the number of ballots counted to the number of ballots cast
- We have reconciled the number of ballots cast to the number of voters who voted
- We have reviewed and do hereby certify the results in the Official Abstract of Votes Cast.

Signed

<i>Sydney Power</i>	November 28, 2023
_____	_____
Sydney Power, Boulder County Deputy Clerk and Recorder	Date

Did not certify results	
_____	_____
Theresa Watson, Republican Canvass Board Member	Date

<i>Lynne McNamara</i>	November 28, 2023
_____	_____
Lynne McNamara, Democratic Canvass Board Member	Date