

## **LOGIC AND ACCURACY TEST (LAT)**

### **October 10 – October 12, 2023**

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#### **Planned Schedule:**

- Tuesday, October 10 9:30am – 5:00pm (Conduct the LAT)
  - Wednesday, October 11 10:00am – 5:00pm (Conduct the LAT)
  - Thursday, October 12 10:00am – 5:00pm (Contingency Day)
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#### **Common acronyms:**

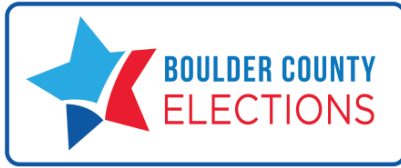
- **CVR:** Cast Vote Record
- **ICC:** Image Cast Central (Scan Station also referred to as Tabulator)
- **ICX:** Image Cast X Ballot Marking Device (BMD)
- **RTR:** Results Tally and Reporting (Tabulates results and generates voting reports)
- **RCV:** Ranked Choice Voting

#### **Storage of personal items (designated area)**

- The following items are prohibited in the testing area: Personal belongings, cameras, recording devices, memory devices, laptops, food, or beverages.

#### **AGENDA**

1. Introduction and Overview
  - Ranked choice voting testing introduction
2. Test board verifies all seals on equipment
3. Ballot marking and tally
  - One (1) packet of 25 RCV ballots provided to each Testing Board member
  - Vote test ballots
  - Create a team tally (2-person process) using the tally sheet
  - One (1) packet of 25 plurality ballots provided to each Testing Board member
  - Vote test ballots
  - Create a team tally (2-person process) using the tally sheet
4. Tally sheets reviewed for accuracy by BOCO staff
  - Testing board makes any needed corrections prior to voting ICX ballots.
5. Image Cast X (ICX) Test (Ballot Marking Device)
  - Mark and print all Testing Board ballots using the ICX including at least one ballot using:
    - audio ballot playback and accessible input devices
    - Spanish language option
6. Testing Board verifies public counter set to zero on applicable devices.
7. Scanner Test (Mail and In-Person ballot counting device)
  - Take manually marked and ICX marked ballots to scanner
  - Inspect for damage or improper markings
    - Improperly marked ballots must be corrected by team prior to scan.



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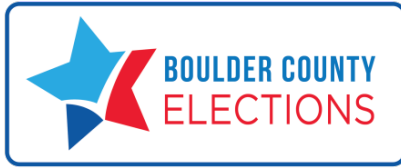
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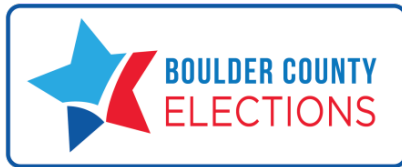
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- Process ballots on scanner in separate batches
    - There will be 4 separate batches due to RCV.
  - Adjudicate ballots as needed.
    - ICX ballots should not need adjudication.
  - Tabulate and verify results against team tally.
8. Prepare Testing Results (optional attendance)
    - Create cumulative result comparisons for ease of use during LAT board review.
    - Collect, organize, and complete test documentation
  9. Resetting and sealing of equipment
    - Reset and seal ICX equipment
    - Reset Scan Stations
    - Reset Results Tally and Reporting (RTR)
  10. Completion of testing
    - Review test information and results
    - Complete Statement of Qualification
  11. Secure storage of all LAT material and ballots



## **GUIDELINES FOR OBSERVERS AT THE LOGIC AND ACCURACY TEST**

- The LAT test shall be open to representatives of the political parties, the press, and the public to the extent allowable and pursuant to section (CRS 1-7-509(2)(b)). The designated election official may limit the number of representatives from each group because of space limitations. (Rule 11.3.2(b)).
- Each major political party, minor political party, ballot issue committee that has an issue on the ballot, and coordinating entity may designate one person, who shall be allowed to witness all public tests and the counting of pretest votes. (CRS 1-7-509(2)(b))
- If an observer or designee hinders or disturbs the test process, the designated election official may remove the person from the test area. An observer or designee who has been removed from a public test may be barred from future tests. (CRS 1-7-509(2)(b))
- The absence of observers or designees shall not delay or stop the public test. (CRS 1-7-509(2)(b))
- The election official will provide name tags and a sign-in sheet (everyone participating in or observing the test must wear a name tag and must sign-in). A copy of the LAT Information Packet will be available for observers.
- The Logic & Accuracy Testing will take substantially all the Elections staff time and resources today. Therefore, any questions should be directed to Stephanie Gnoza, Elections Director, or her designee.



## Requirements of the LAT

### Preparation:

- ✓ The county has prepared a test deck that includes every ballot style and precinct in the election
- ✓ The county test deck includes a mark for every vote position for every contest and candidate, situations where a voter may choose two or more options, and overvotes, duplicate rankings, skipped rankings, and undervotes for each contest.; It also includes write-in candidates when applicable.
- ✓ Ranked Choice contests be marked in such a manner that no candidate receives the majority of the first ranking votes in the first round
- ✓ The county test deck includes ballots printed from a ballot-on-demand printer that will be used in the upcoming election and commercially printed ballots
- ✓ Testing Board is comprised of one registered elector from each major political party
- ✓ Testing Board members are registered in Boulder County and have been sworn in as election judges
- ✓ 25 test ballots have been provided to each Test Board member and are clearly marked “TEST”
- ✓ 25 Ranked Choice ballots provided to each Test Board member and are clearly marked “TEST”
- ✓ Test ballots were marked using the instructions printed on the ballot
- ✓ Testing Board created and retained a record of the tally on a tally sheet
- ✓ Each type of voting device and each type of ballot is represented in testing
- ✓ Appropriate number of devices were made available for the test
- ✓ Testing Board members have randomly selected the machines to test

### ICX Test (Ballot Marking Device)\*:

Testing Board members completed the following:

- ✓ Verified that the ICX public counter was set to zero
- ✓ Used at least one ICX to mark and print 25 ballots in the same manner the Testing Board member manually marked their test ballots (aside from overvotes)
- ✓ Used at least one ICX to mark and print 25 Ranked Choice Voting ballots in the same manner the Testing Board member manually marked their test ballots (aside from overvotes)
- ✓ Marked at least one ballot using audio ballot playback and accessible input device

### Scanner Test (Mail and In-Person Paper Ballot counting device) \*:

Testing Board members completed the following:

- ✓ Verified the zero-report generated from the scanner
- ✓ Observed the separate counting of county and Testing Board’s test ballots on at least one scanner

### Tabulation:

Testing Board members completed the following:

- ✓ Verified the zero-report generated from RTR before tabulating
- ✓ Observed the separate tabulation and result report generation of all test ballots

*\*Scanner and ICX testing may be done in parallel, when applicable.*



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### Comparison:

Testing Board members completed the following:

- ✓ Verified that the results reports exactly correspond to the Testing Board member's predetermined tally of the votes
- ✓ Verified that the county test deck results report exactly corresponds to the county's predetermined tally of the votes

### Storage of test materials:

- ✓ All test materials were secured in a sealed metal cage when not in use
- ✓ Each Testing Board member verified the seals and initialed the chain-of-custody log
- ✓ If records were opened for inspection, at least two election officials verified the newly attached seals and initialed the chain-of-custody log

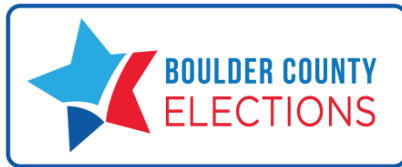
### Completing the test:

- ✓ Test result files have been exported for Election Night Reporting and Risk Limiting Audit purposes
- ✓ The county has backed up the election project containing test results, including test results and CVR files
- ✓ Testing Board watched the county reset and seal each voting device, if applicable
- ✓ Testing Board and Clerk verified the documented seal number attached to each voting device

### Statement of Qualification:

Testing Board and Clerk signed a written statement attesting to:

- ✓ The qualification of each device successfully tested
- ✓ The number of the seal attached to the voting device at the end of the test
- ✓ If applicable, any problems discovered, and
- ✓ Any other documentation necessary to provide a full and accurate account of the condition of a given device



## **Logic and Accuracy Test (LAT) Testing Board Procedures**

### **Purpose of LAT (CRS 1-7-509 and SOS Election Rule 11):**

The purpose of the LAT is to test the compatibility of the election ballots through the scanning and tabulation equipment to confirm that every voting position on the ballot is accurately counted where a properly marked selection is made.

### **Testing Board member responsibilities:**

- You will be participating in all parts of the LAT, ensuring all requirements are met.
- You will attest to this at the end of the process and document the successful completion of testing.
- No process shall be delayed due to the absence of a Testing Board member.

### **Ranked Choice Ballot Marking and Tally:**

The county has provided a packet of test ballots to each Testing Board member that includes 25 ranked choice ballots. The ranked choice packet comes with separate ballot marking instructions for ranked choice. Teams and staff will be assigned to assist with marking questions and tally the City of Boulder ranked choice contest.

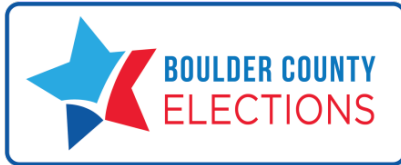
### **Ballot Marking:**

The county has provided a packet of test ballots to each Testing Board member that includes 25 unique precinct district style ballots.

This is in addition to the ballots prepared to fulfill the county test deck requirements.



For non-ranked choice ballots please follow the directions below. For ranked choice ballots please mark use the directions provided in the packet.

1. Confirm the number of ballots, verify they are all labeled “TEST” and are numbered at the top, 1 through 25 for the Testing Board.
2. Confirm the number of ranked choice ballots verify they are all labeled “TEST” and are numbered at the top 1 through 25 for the Testing Board
3. Each Testing Board member has a support team member. The Testing Board member may enlist the help of their team member in marking their ballots.
4. Mark your ballots following the “Instructions for voting” printed on the ballot.
  - Use the pen provided and fill in the oval completely; no X or v.
  - Voting for more than the maximum number of allowed choices is considered an Overvote and will not be counted.
  - Voting for less than the maximum number of allowed choices is considered an Undervote.



5. How to correct a mistake:

*NOTE: Ballots that are damaged or improperly marked will be reviewed and/or rejected prior to the scanner portion of testing. Catching and correcting a mistake immediately prevents delays in testing later.*

(Vote for one)		
CHOICE A		(Fill in the oval to the right of your choice)
<del>CHOICE B</del>		(Draw a line through the choice you did not mean to choose)

- If a mistake (wrong choice, stray mark, hesitant mark) is made in a contest that you did not intend to vote, request a replacement ballot from staff.
6. Write-In votes: For this election **there are no certified Write-In candidates**
- A certified write-in candidate name shall be noted on the Tally sheet.
  - Uncertified candidates are counted as an undervote if no other choice is marked.
  - A write-in vote will be counted if you:
    - ✓ Completely fill in the oval provided to the right of the words "Write-in"
    - ✓ Write at least the last name of the certified candidate.
    - ✓ Do not vote for more than the maximum number of allowed choices.
7. When finished marking your paper ballots, organize your ballots in sequential order (1-25 in upper right corner).
8. Notify staff that you are ready to create your tally.

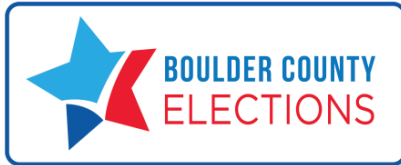
### Creating the tally:

Testing Board members are to use the provided non-ranked choice tally sheet.

- Sheet 1 will include columns to capture votes for ballots 1 through 12, totals for Sheet 1, totals for Sheet 2, and the Grand Total (tally) for each contest option.
- Sheet 2 will include columns to capture votes for ballots 13 through 25, and totals for Sheet 2.
- There will be options to mark the ranked choice contest on the two City of Boulder ballot styles, as there are only two ballots these will be added to the cumulative tally.

On each sheet of the tally sheet, follow this procedure to create a tally for your test ballots:

1. Print both participant names on the first page of your tally sheet and initial subsequent pages.
  - This document will be available to the public so please do not add your signature.
2. Starting with ballot #1 and using the provided line rulers, Person A reads aloud the ballot number recorded in the top right corner while Person B verifies this on the tally sheet.
3. Person A reads aloud each contest name and contest selection made, indicating any voting marks that are outside the prescribed voting instructions.
4. Person B will record the selections read aloud by Person A on the manual verification worksheet by making a slash mark for the appropriate contest option read and will make notation of any abnormal markings as indicated.
  - If a contest has not been voted, a slash mark must be recorded in the "Undervote" row for that contest.
  - For contests that allow more than one selection, you can have more than one undervote.
    - ✓ You can vote for 3, but only mark one selection; you then need to record 2 undervotes for that ballot contest.



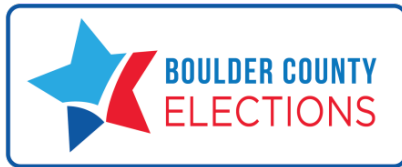
5. When all ballots have been recorded, trade roles to verify the accuracy of the tally sheet, noting and resolving any discrepancies found.
6. For each tally sheet sheet, add up the selections for each contest option and record this number in the applicable Total field.
  - It is extremely important to validate each other's calculations.
7. Transfer tally sheet Sheet 2 Totals to Sheet 1 in the column labeled "Sheet 2 Total," and add the totals from Sheet 1 and Sheet 2 together to create the Grand Total (team tally). Calculators are provided.
8. After verification has been completed, organize your ballots in sequential order (1-25 in upper right corner) and give your tally sheet to an election support staff member.
9. Support staff will make a copy of the tally sheet. The copy should be reviewed by team members to confirm it is accurate.
  - Support staff then enter the tally sheet into the electronic cumulative manual verification spreadsheet.

#### **ICX Test (Ballot Marking Device):**

The ICX is a Ballot Marking Device (BMD) that visually displays or audibly presents ballots and allows voters to print a paper ballot. An ICX BMD also provides voting accessibility to voters who may be otherwise unable to mark a paper ballot privately and independently. It includes an audio ballot playback feature with headphones and can accept adaptive devices for voters with mobility impairments.

1. Record which ICX you are testing in the upper right-hand corner of the tally sheet.
2. Before the start of ICX testing, a "zero" count is witnessed by the Testing Board for verification that the device has been reset and the public counter is at zero.
3. Bring your test ballots to the selected ICX where you will:
  - Mark and print all 25 test ballots on the ICX in the same manner you manually marked the test ballots.
  - Confirm that the ballot style, contests, and selections on the ICX review screen match the paper ballot prior to printing (overvotes reflecting as a blank/unvoted contest).
  - Verify that the ballot style, contests and selections printed from the ICX match the paper ballot (overvotes reflecting as a blank contest).
  - Validate the ICX audio and screen content for at least one manually marked test ballot.
4. Marking a ballot using the audio ballot playback and accessible input device:
  - Person A
    - ✓ Listens to audio instruction and uses accessible input device (paddles) to make ballot selections
  - Person B
    - ✓ Verifies that the ICX selection made matches the manually marked ballot selection





Boulder County Elections

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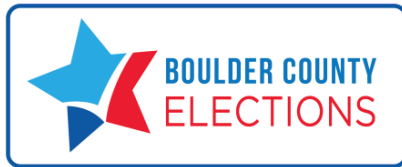
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5. Before printing the ballot, verify that the ballot style, titles, and choices displayed on the ICX Review Screen match the manually marked ballot selections.
6. Once printed, verify the ballot style, titles, and selections of the ICX printed ballot and , attesting that the ICX ballot matches the manually marked test ballot.
7. In the upper right-hand corner of the ICX ballot, write in the ballot number that coincides with the manually marked ballot used for testing (1, 2, 3).
8. Overvotes on ICX:
  - Hand marked ballots are used for the ICX portion of voting, which does not allow for overvotes. Since all ballots are to be marked in accordance with the voter instructions, there should be no overvotes. You are encouraged to verify the ICX does not allow you to create an overvote.
9. When all test ballots have been marked and printed on the ICX, initial the qualification form confirming that the screen, audio, and printed content is accurate, and that the selected ballot marking device functioned properly during testing.

Repeat this process for the Ranked Choice ballots.



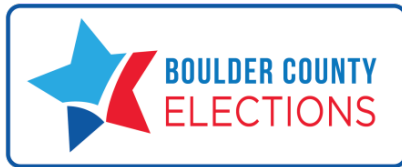
**Scanner Test (Mail and In-Person paper ballot counting device):**

An ICC scan station is designed to capture an image of a voter's paper ballot, process the image of that ballot and capture the voter's choices. These are referred to as Cast Vote Records (CVRs).

This test ensures properly marked choices are being accurately captured and recorded; we want to make sure that a choice for Candidate A is being recorded as a vote for Candidate A, and not Candidate B and that there is compatibility between the ballots (proper printing and alignment), and the equipment.

An adjudication station provides for the resolution of voter intent as prescribed by the Colorado Secretary of State. Ballots that have been over voted will be flagged and adjudicated per state guidelines.

1. Before the start of any scanner testing, the Testing Board will verify the zero report at each ICC, confirm that the Total Ballots Accepted on the scan screen is set to zero, and verify that there are no batches listed in the Batch Reporting section of the ICC Status screen. They will also verify the zero report and zero count on the RTR tabulation system at this time.
2. The ballots are reviewed by staff to look for damaged and improperly marked ballots that would require manual review or duplication during the election cycle.
  - Damaged ballot: A ballot that is torn, bent, or otherwise mutilated or rendered unreadable, so that it cannot be processed by the ballot scanner. (Rule 1.1.15)  
Damaged ballots include:
    - ✓ All ballots that contain a foreign substance that could interfere with the ballot scanner (e.g. food, drink, etc.)
    - ✓ Ballots that are marked in a medium or manner that cannot be detected by a ballot scanner
  - Improper markings include: X's or V's as well as obvious stray marks, hesitant marks, incomplete marks or parts of written notes that are within the target area of a contest option where no other choice has been made.
3. Testing Board ballots (manually marked and ICX marked) are brought to the selected ICC scan station. Record the ICC station ID in the upper right-hand corner of your tally sheet and checks that the Batch Size on the scan screen is zero.
4. Testing Board ballots are then processed on the scanner and votes captured.
  - Each set of test ballots are scanned in and saved, to capture and process ballot images
  - Scan count is validated by the team
  - Applicable ballots are adjudicated if needed following state rule and guidelines



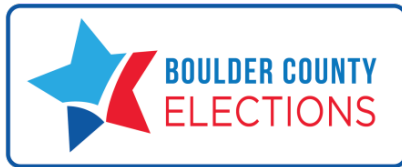
**Scanner results tabulated and verified:**

The RTR application tabulates vote records to produce combined election results. This process confirms that votes are accurately tabulated and aggregated by the scanner and tabulation system.

1. Before starting the scanner test, the RTR Election Summary Report showing “0” votes cast is presented to the Testing Board for verification that the system has been set to zero. They also verify that no batch results have been received in RTR.
  - Both team members print their name and date the report, documenting that it has been verified.
2. After tabulation, reports will be generated for the isolated tabulation of the Testing Board’s ballots.
  - A separate Election Summary Report is generated for manually marked and ICX marked ballots.
  - An RCV short report will be generated for the ranked choice ballots both hand marked and ICX marked.
3. The team compares the results report to their team tally sheet validating that the results produced by the scanner exactly corresponds to the team’s predetermined tally of the manually marked and ICX marked test ballots.
4. When the team concludes the counts to be accurate, both team members print their name and date the results report, attesting to the accuracy of the count and the machine.
5. Team members then initial the qualification form for the ICC, attesting to the successful completion of testing for the scanner device.

**Discrepancy resolution (in order of escalation):**

1. Review for entry and recording errors
  - Review tally sheet for too few or too many votes captured
  - Review ballots with tally sheet for incorrect recording and recount if needed
  - Review Adjudication and Audit Marks for resolution differences (if applicable)
  - Review comparison and recount if needed
2. If error is identified as a hardware or software error on single device
  - Validate other tested equipment was not impacted
  - Mark device unsatisfactory, replace and test alternative/new device
3. If error is identified on more than one device and devices are failing in similar fashion
  - Test multiple devices that could reasonably have same error
  - Mark devices unsatisfactory, replace and test alternative/new devices
  - If enough resources are not available for replacement, error shall be corrected, and retesting will be completed
4. If error is identified as a software or ballot programming error
  - Alert staff for correction
  - Correct software or ballot programming error and restart testing from beginning



### **County Test Deck on Scanners:**

The county is required to prepare a test deck of ballots that includes every ballot style and, where applicable, precinct. The county test deck must include a sufficient number of ballots to:

- Mark every vote position for every contest, including write-in candidates
- Allow for situations where a contest permits an elector to vote for two or more positions
- Include overvotes skipped ranking, duplicate ranking and undervotes for each contest where applicable

In addition to the packets provided to the Testing Board, the county has prepared a deck and tally (tally sheet) that meets the above requirement.

As is required for the Testing Board ballots, the county ballots are counted on one or more scanners, adjudicated, and then tabulated for comparison against the county tally. Results are then generated and provided to the testing board, where the testing board then verifies that the results exactly match the pre-determined tally.

### **Reporting and back up (optional attendance):**

When all individual results have been verified, the county will generate a Cumulative Election Summary Report that includes all tested ballots. The reports will be reviewed with the Testing Board at the end of the LAT.

1. All team tally sheet and machine count data is entered onto the Cumulative Results Comparison spreadsheet.
2. Cumulative Election Summary Report is generated, and total ballot count verified.
3. Statement of Vote Report is generated and inspected to ensure all precincts are included in testing.
4. Election result files are exported to fulfill Election Night Reporting and Risk Limiting Audit requirements, and the test election data is backed up.
5. Cumulative result information is entered and validated in the Cumulative Results Comparison spreadsheet.
6. Testing documentation is collected and organized.
7. Statement of Qualification document is drafted.



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### **Resetting and sealing of equipment:**

After testing, the Testing Board must watch the county reset and seal each voting device, as applicable. As part of the Statement of Qualification, the Testing Board and Clerk must attest to the seal number attached to the voting device at the end of testing.

1. Testing Board witnesses the resetting and sealing of the ICX equipment, verifying the seal numbers attached to each device.
2. Testing Board witnesses the resetting of scan stations and Results Tally and Reporting, verifying that the Total Ballots Accepted on the ICCs is "0" and that the Election Summary Report is regenerated and shows "0" votes cast.

### **Completion of Testing:**

After the devices are reset and sealed, the results of all testing is reviewed with the Clerk and Testing Board, along with testing documentation. The Testing Board and the county clerk must sign a written statement attesting to the qualification of each device successfully tested, the number of the seal attached to the voting device at the end of the test, any problems discovered, and any other documentation necessary to provide a full and accurate account of the condition of a given device.

1. Test information and results are reviewed with the Clerk and Testing Board
2. Cumulative results are verified by the Testing Board
3. Testing Board and Clerk complete the Statement of Qualification

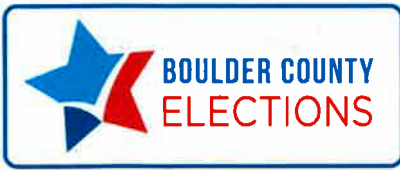
### **Secure storage of all LAT materials and ballots:**

The county must keep all test materials, when not in use, in a durable, secure box. Each member of the Testing Board must verify the seals and initial the chain-of-custody log maintained by the county clerk. If the records are opened for inspection, at least two election officials must verify the seals and initial the chain-of-custody log.



## Logic and Accuracy Test Information

<b>Election Title:</b> 2023 Boulder County Coordinated Election		
<b>Election Date:</b> November 7, 2023		
<b>Logic and Accuracy Test Dates:</b> October 10-12, 2023		
<b>Test Location:</b> 1750 33rd St. Boulder, CO		
Team	Entity	Participant Name
1	Democratic Party Testing Board Member	Janet Davis
1	Republican Party Testing Board Alternate & Support	Greg Morrissey
2	Republican Party Testing Board Member	Mark Milliman
2	Democratic Party Testing Board Alternate & Support	Jennifer Loper
N/A	Boulder County Clerk & Recorder	Molly Fitzpatrick
N/A	Boulder County Clerk & Recorder - Elections Director	Stephanie Gnoza
N/A	Boulder County Support	Brad Light
N/A	Boulder County Support	Iola Freeland
N/A	Boulder County Support	Ann Hansen
N/A	Boulder County Support	Josh Hansen
N/A	Boulder County Support	Kayla Gehring
N/A	Boulder County Support	Molly Halsey
N/A	Boulder County Support	Tricia Grossnickle
N/A	Boulder County Support	Matt Hansen



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Device ID	Type of Device	Seal # (Where applicable)	Seal # (Where applicable)	Seal # (Where applicable)
<b>ICX 61</b> Serial # [REDACTED]	Ballot Marking Device (BMD)	[REDACTED]	[REDACTED]	[REDACTED]
<b>Image Cast Printer 028</b> Serial # [REDACTED]	BMD Printer	[REDACTED]		NA
<b>ICX 83</b> Serial # [REDACTED]	Ballot Marking Device (BMD)	[REDACTED]	[REDACTED]	[REDACTED]
<b>Image Cast Printer 015</b> Serial # [REDACTED]	BMD Printer	[REDACTED]		NA
<b>Scan Station A (1)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station B (2)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station C (3)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station D (4)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station E (5)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station F (6)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station G (7)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station H (8)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA
<b>Scan Station I (9)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA





<b>Scan Station J (10)</b> Serial # [REDACTED]	Central Count Scanner	[REDACTED]	NA	NA	[REDACTED]
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Device ID	Type of Device	Seal # (Where applicable)	Seal # (Where applicable)	Seal # (Where applicable)
<b>Adjudication Workstation 1</b> Serial # [REDACTED]	Adjudication Station	[REDACTED]	NA	NA
<b>Adjudication Workstation 2</b> Serial # [REDACTED]	Adjudication Station	[REDACTED]	NA	NA
<b>Adjudication Workstation 3</b> Serial # [REDACTED]	Adjudication Station	[REDACTED]	NA	NA
<b>Adjudication Workstation 4</b> Serial # [REDACTED]	Adjudication Station	[REDACTED]	NA	NA
<b>Adjudication Workstation 5</b> Serial # [REDACTED]	Adjudication Station	[REDACTED]	NA	NA
<b>EMS Workstation 1</b> Serial # [REDACTED]	Results Tally & Reporting	[REDACTED]	NA	NA
<b>EMS Workstation 2</b> Serial # [REDACTED]	Results Tally & Reporting	[REDACTED]	NA	NA
<b>Election Server 1</b> Serial # [REDACTED]	Election Server	[REDACTED]	[REDACTED]	NA

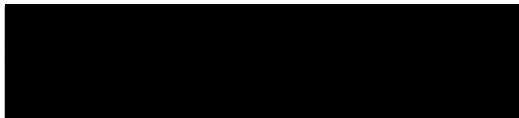




**Boulder County Clerk & Recorder Elections Division  
Statement of Qualification of Election Devices**

I attest that, to the best of my knowledge, each election device used in the Logic and Accuracy Test (LAT) passed the requirements of the LAT and accurately tabulated all properly marked LAT ballots.

It is the determination of the Logic and Accuracy Test Board that all devices tested are qualified to be used in the 2023 Coordinated Election on November 7, 2023.



Janet Davis, Democratic  
LAT Test Board Member



Mark Milliman, Republican  
LAT Test Board Member



Molly Fitzpatrick  
Boulder County Clerk & Recorder

Any problems discovered during testing are described as follows. Additionally, I am reporting any other information or attaching any additional documentation that might be necessary to provide a full and accurate account of the condition of each piece of equipment:

Janet Davis, Democratic Party LAT Test Board Member:

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Mark Milliman, Republican Party LAT Test Board Member:

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Molly Fitzpatrick, Boulder County Clerk & Recorder:

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# Election Summary Report

General Election

Boulder

November 07, 2023

Summary for: All Contests, All Districts, All Tabulators, All Counting Groups

LAT - Cumulative Results

Voters Cast: 1,159 of 249,085 (0.47%)

## City of Boulder Mayoral Candidates (Vote for 1)

		Total	
Times Cast		345 / 74,672	0.46%
Undervotes		144	
Overvotes		7	
Candidate	Party	Total	
Aaron Brockett		42	
Nicole Speer		44	
Bob Yates		46	
Paul Tweedlie		62	
Total Votes		194	
		Total	
Unresolved Write-In		0	

## City of Boulder Council Candidates (Vote for 4)

		Total	
Times Cast		345 / 74,672	0.46%
Undervotes		964	
Overvotes		6	
Candidate	Party	Total	
Terri Brncic		10	
Jenny Robins		20	
Aaron Gabriel Neyer		22	
Jacques Decalo		32	
Silas Atkins		36	
Waylon Lewis		42	
Ryan Schuchard		50	
Tara Winer		56	
Tina Marquis		56	
Taishya Adams		68	
Total Votes		392	
		Total	
Unresolved Write-In		0	

## City of Lafayette City Council Candidates (Vote for 4)

		Total	
Times Cast		64 / 23,163	0.28%
Undervotes		132	
Overvotes		4	
Candidate	Party	Total	
Tim Barnes		6	
JD Mangat		8	
Eric Ryant		14	
John W. Watson		16	
Gala W. Orba		20	
David Fridland		20	
Crystal Gallegos		24	
Total Votes		108	
		Total	
Unresolved Write-In		0	

## City of Longmont - Mayor (Vote for 1)

		Total	
Times Cast		165 / 72,560	0.23%
Undervotes		78	
Overvotes		9	
Candidate	Party	Total	
Ethan Augreen		18	
Joan Peck		28	
Terri Goon		32	
Total Votes		78	
		Total	
Unresolved Write-In		0	

## City of Longmont - City Council Member At-Large (Vote for 1)

		Total	
Times Cast		165 / 72,560	0.23%
Undervotes		78	
Overvotes		9	
Candidate	Party	Total	
Sean P. McCoy		14	
Steve Altschuler		30	
Beka Venturella		34	
Total Votes		78	
		Total	
Unresolved Write-In		0	

### City of Longmont - Council Member Ward 1 (Vote for 1)

	Total	
Times Cast	49 / 23,273	0.21%
Undervotes	20	
Overvotes	3	

Candidate	Party	Total
Nia Wassink		6
Diane Crist		10
Harrison Earl		10
Total Votes		26

	Total
Unresolved Write-In	0

### City of Longmont - Council Member Ward 3 (Vote for 1)

	Total	
Times Cast	67 / 25,217	0.27%
Undervotes	24	
Overvotes	3	

Candidate	Party	Total
Ron Gallegos		6
Gary Hodges		10
Susie Hidalgo-Fahring		10
Spencer Adams		14
Total Votes		40

	Total
Unresolved Write-In	0

### City of Louisville Mayor At-Large (4 Year Term) (Vote for 1)

	Total	
Times Cast	126 / 16,135	0.78%
Undervotes	33	
Overvotes	9	

Candidate	Party	Total
Sherry Sommer		20
Chris Leh		30
Josh Cooperman		34
Total Votes		84

	Total
Unresolved Write-In	0

### City of Louisville City Council Ward 1 (4-year term) (Vote for 1)

		Total	
Times Cast		41 / 5,259	0.78%
Undervotes		24	
Overvotes		0	
Candidate	Party	Total	
J. Caleb Dickinson		17	
Total Votes		17	
		Total	
Unresolved Write-In		0	

### City of Louisville City Council Ward 2 (4-year term) (Vote for 1)

		Total	
Times Cast		43 / 5,143	0.84%
Undervotes		22	
Overvotes		3	
Candidate	Party	Total	
Deborah Fahey		6	
George Colbert		12	
Total Votes		18	
		Total	
Unresolved Write-In		0	

### City of Louisville City Council Ward 3 (Vote for 2)

		Total	
Times Cast		42 / 5,733	0.73%
Undervotes		54	
Overvotes		0	
Candidate	Party	Total	
Dietrich Hoefner		15	
Barbara Hamlington		15	
Total Votes		30	
		Total	
Unresolved Write-In		0	

### Boulder Valley School District RE-2 Director District A (4 Years) (Vote for 1)

		Total	
Times Cast		662 / 155,651	0.43%
Undervotes		456	
Overvotes		30	
Candidate	Party	Total	
Jason Unger		66	
Neil Fishman		110	
Total Votes		176	
		Total	
Unresolved Write-In		0	

### Boulder Valley School District RE-2 Director District C (4 Years) (Vote for 1)

		Total	
Times Cast		662 / 155,651	0.43%
Undervotes		358	
Overvotes		30	
Candidate	Party	Total	
Andrew Steffl		54	
Alex Medler		96	
Cynthia Nevison		124	
Total Votes		274	
		Total	
Unresolved Write-In		0	

### Boulder Valley School District RE-2 Director District D (4 Years) (Vote for 1)

		Total	
Times Cast		662 / 155,651	0.43%
Undervotes		458	
Overvotes		30	
Candidate	Party	Total	
Andrew Brandt		70	
Lalenia Quinlan Aweida		104	
Total Votes		174	
		Total	
Unresolved Write-In		0	

### Boulder Valley School District RE-2 Director District G (4 Years) (Vote for 1)

		Total	
Times Cast	662 / 155,651	0.43%	
Undervotes	356		
Overvotes	30		

Candidate	Party	Total	
Anil Kiran Pesaramelli		58	
Stuart Lord		98	
Jorge Chávez		120	
Total Votes		276	

		Total	
Unresolved Write-In	0		

### Estes Park School District R-3 School Board Director At Large (4 Year) (Vote for 2)

		Total	
Times Cast	34 / 556	6.12%	
Undervotes	18		
Overvotes	3		

Candidate	Party	Total	
Kevin G. Morris		6	
Kyri Cox		10	
Brenda L. Wyss		14	
Brad Shochat		14	
Total Votes		44	

		Total	
Unresolved Write-In	0		

### Thompson R2-J School District Board of Education Director District A (4 Year Term) (Vote for 1)

		Total	
Times Cast	25 / 184	13.59%	
Undervotes	6		
Overvotes	3		

Candidate	Party	Total	
Ryan Wilcken		4	
Dawn Kirk		12	
Total Votes		16	

		Total	
Unresolved Write-In	0		

### Thompson R2-J School District Board of Education Director District C (4 Year Term) (Vote for 1)

		Total	
Times Cast		25 / 184	13.59%
Undervotes		6	
Overvotes		3	

Candidate	Party	Total	
Nancy Rumpfelt		6	
Briah Freeman		10	
Total Votes		16	

		Total	
Unresolved Write-In		0	

### Thompson R2-J School District Board of Education Director District D (4 Year Term) (Vote for 1)

		Total	
Times Cast		25 / 184	13.59%
Undervotes		6	
Overvotes		3	

Candidate	Party	Total	
Denise Alvine Chapman		8	
Yazmin Navarro		8	
Total Votes		16	

		Total	
Unresolved Write-In		0	

### Thompson R2-J School District Board of Education Director District G (4 Year Term) (Vote for 1)

		Total	
Times Cast		25 / 184	13.59%
Undervotes		6	
Overvotes		3	

Candidate	Party	Total	
Stu Boyd		6	
Elizabeth Kearney		10	
Total Votes		16	

		Total	
Unresolved Write-In		0	



## City of Longmont Municipal Court Judge - Frick (Vote for 1)

		Total	
Times Cast		165 / 72,560	0.23%
Undervotes		108	
Overvotes		9	
Candidate	Party	Total	
Yes/For		20	
No/Against		28	
Total Votes		48	
		Total	
Unresolved Write-In		0	

## Proposition HH (Statutory) (Vote for 1)

		Total	
Times Cast		1,111 / 249,085	0.45%
Undervotes		749	
Overvotes		54	
Candidate	Party	Total	
Yes/For		124	
No/Against		184	
Total Votes		308	
		Total	
Unresolved Write-In		0	

## Proposition II (Statutory) (Vote for 1)

		Total	
Times Cast		1,111 / 249,085	0.45%
Undervotes		749	
Overvotes		54	
Candidate	Party	Total	
Yes/For		130	
No/Against		178	
Total Votes		308	
		Total	
Unresolved Write-In		0	

### Boulder County Ballot Issue 1A (Vote for 1)

		Total	
Times Cast		1,111 / 249,085	0.45%
Undervotes		749	
Overvotes		54	
Candidate	Party	Total	
Yes/For		108	
No/Against		200	
Total Votes		308	
		Total	
Unresolved Write-In		0	

### Boulder County Ballot Issue 1B (Vote for 1)

		Total	
Times Cast		1,111 / 249,085	0.45%
Undervotes		751	
Overvotes		54	
Candidate	Party	Total	
Yes/For		122	
No/Against		184	
Total Votes		306	
		Total	
Unresolved Write-In		0	

### City of Boulder Ballot Issue 2A (Vote for 1)

		Total	
Times Cast		345 / 74,672	0.46%
Undervotes		307	
Overvotes		6	
Candidate	Party	Total	
Yes/For		12	
No/Against		20	
Total Votes		32	
		Total	
Unresolved Write-In		0	

### City of Boulder Ballot Question 2B (Vote for 1)

		Total	
Times Cast		345 / 74,672	0.46%
Undervotes		307	
Overvotes		6	
Candidate	Party	Total	
Yes/For		16	
No/Against		16	
Total Votes		32	
		Total	
Unresolved Write-In		0	

### City of Boulder Ballot Question 302 (Vote for 1)

		Total	
Times Cast		345 / 74,672	0.46%
Undervotes		307	
Overvotes		6	
Candidate	Party	Total	
Yes/For		10	
No/Against		22	
Total Votes		32	
		Total	
Unresolved Write-In		0	

### Town of Erie Ballot Question 3A (Vote for 1)

		Total	
Times Cast		68 / 10,924	0.62%
Undervotes		26	
Overvotes		6	
Candidate	Party	Total	
Yes/For		16	
No/Against		20	
Total Votes		36	
		Total	
Unresolved Write-In		0	

### Town of Erie Ballot Question 3B (Vote for 1)

		Total	
Times Cast		68 / 10,924	0.62%
Undervotes		26	
Overvotes		6	
Candidate	Party	Total	
Yes/For		20	
No/Against		16	
Total Votes		36	
		Total	
Unresolved Write-In		0	

### City of Longmont Ballot Issue 3C (Vote for 1)

		Total	
Times Cast		165 / 72,560	0.23%
Undervotes		108	
Overvotes		9	
Candidate	Party	Total	
Yes/For		20	
No/Against		28	
Total Votes		48	
		Total	
Unresolved Write-In		0	

### City of Longmont Ballot Issue 3D (Vote for 1)

		Total	
Times Cast		165 / 72,560	0.23%
Undervotes		108	
Overvotes		9	
Candidate	Party	Total	
Yes/For		16	
No/Against		32	
Total Votes		48	
		Total	
Unresolved Write-In		0	

### City of Longmont Ballot Issue 3E (Vote for 1)

		Total	
Times Cast		165 / 72,560	0.23%
Undervotes		108	
Overvotes		9	
Candidate	Party	Total	
Yes/For		22	
No/Against		26	
Total Votes		48	
		Total	
Unresolved Write-In		0	

### City of Louisville Ballot Issue 2C (Vote for 1)

		Total	
Times Cast		126 / 16,135	0.78%
Undervotes		63	
Overvotes		9	
Candidate	Party	Total	
Yes/For		22	
No/Against		32	
Total Votes		54	
		Total	
Unresolved Write-In		0	

### Town of Superior Ballot Question 301 (Vote for 1)

		Total	
Times Cast		63 / 9,787	0.64%
Undervotes		42	
Overvotes		3	
Candidate	Party	Total	
Yes/For		8	
No/Against		10	
Total Votes		18	
		Total	
Unresolved Write-In		0	

## Town of Superior - Home Rule Charter Commission (Vote for 9)

		Total	
Times Cast		63 / 9,787	0.64%
Undervotes		278	
Overvotes		3	
Candidate	Party	Total	
Dalton Valette		8	
Heather Cracraft		14	
Ryan Hitchler		14	
Claire Dixon		18	
Ryan Welch		22	
Jeff Chu		24	
Sean Maday		28	
Clint Folsom		32	
Chris Hanson		32	
Stephanie Schader		34	
Mike Foster		36	
Total Votes		262	
		Total	
Unresolved Write-In		0	

## Nederland Eco Pass Public Improvement District Ballot Issue 6A (Vote for 1)

		Total	
Times Cast		66 / 2,989	2.21%
Undervotes		26	
Overvotes		6	
Candidate	Party	Total	
Yes/For		16	
No/Against		18	
Total Votes		34	
		Total	
Unresolved Write-In		0	

## North Metro Fire Rescue District Ballot Issue 7A (Vote for 1)

		Total	
Times Cast		58 / 130	44.62%
Undervotes		20	
Overvotes		6	
Candidate	Party	Total	
Yes/For		14	
No/Against		18	
Total Votes		32	
		Total	
Unresolved Write-In		0	

# Boulder

Candidate	Round 1			Round 2			Round 3		
	Votes	Percentage	Transfer (Elimination)	Votes	Percentage	Transfer (Elimination)	Votes	Percentage	Transfer
Aaron Brockett	42	21.65%	-42	0	0.00%	0	0	0.00%	0
Nicole Speer	44	22.68%	20	64	34.41%	18	82	44.57%	0
Bob Yates	46	23.71%	10	56	30.11%	-56	0	0.00%	0
Paul Tweedlie	62	31.96%	4	66	35.48%	36	102	55.43%	0
<b>Continuing Ballots Total</b>	<b>194</b>			<b>186</b>			<b>184</b>		
Blanks	144		0	144		0	144		0
Exhausted	0		8	8		2	10		0
Overvotes	7		0	7		0	7		0
<b>Non Transferable Total</b>	<b>151</b>			<b>159</b>			<b>161</b>		
Threshold	98			94			93		

\* Tie resolved in accordance with election law.

