



Clear Ballot

ClearVote 2.1

ClearCount Reporting Guide

ClearCount Reporting Guide

Clear Ballot Part Number: 100070-10017

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Preface

This section defines the purpose of this document. It contains the following subsections.

- About this document
- Scope of this document
- Intended audience
- Contact us

About this document

This document provides descriptions of the various reports available within the ClearCount system.



A ClearVote® system can comprise the ClearAccess®, ClearAudit®, ClearCast®, ClearCount®, and ClearDesign® products. Jurisdictions are not required to purchase all products. You can ignore references to any ClearVote products that are not part of your voting system. Also ignore implementation options that are not relevant to your policies and procedures.

Scope of this document

This document covers all ClearCount reporting methods, which include:

- [Overview](#)
- [Web reports](#)
- [PDF reports](#)
- [Exported reports](#)

The information for each reporting method provides all necessary concepts, instructions, and detailed descriptions for its use.

Intended audience

This document is intended for election officials and election staff who are responsible for operations and maintenance before, during, and after an election. This document is also used by Clear Ballot personnel who support election officials and election staff.

Contact us

Clear Ballot Group welcomes your feedback on our documentation. Please send comments to Documentation@ClearBallot.com.

If you have questions about using your ClearVote product, contact your Clear Ballot representative.

Chapter 1. Overview

The ClearCount system provides a variety of reports in several formats for communicating election data. Report data is stored on the ScanServer, but access to all reports occurs via an election administration station.

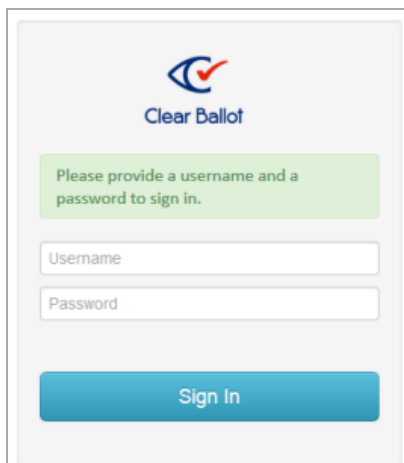
There are three formats of ClearCount reports:

- [Web reports](#)—Customizable operational and results reports that are viewed via browser pages, and can be copied, saved and printed
- [PDF reports](#)—Customizable results reports that are viewable and downloadable as PDF files
- [Exported reports](#)—Reports that are only viewable after downloading

1.1 Logging in as a report user

To log in to the ClearCount system as a report user:

1. (If necessary) Obtain the following information from your ClearCount administrator:
 - The address (URL) of the ClearCount ScanServer
 - Your user name and password
2. Log in to an election administration station, open a browser window and enter the provided URL for the ScanServer into the address field. The Clear Ballot Login dialog appears.

The image shows a login dialog box for 'Clear Ballot'. At the top is the 'Clear Ballot' logo, which consists of a stylized blue 'C' with a red checkmark inside. Below the logo is a green rectangular box containing the text 'Please provide a username and a password to sign in.' Underneath this box are two white input fields: the first is labeled 'Username' and the second is labeled 'Password'. At the bottom of the dialog is a blue rectangular button with the text 'Sign In' in white.

3. In the User name field, enter your assigned case-sensitive user name.
4. In the Password field, enter your assigned case-sensitive password.
5. Click **Sign in**. The [Election Index](#) page displays a list of the elections that currently reside on the ScanServer.
6. From the Election column, select the election you want to view. The [Dashboard](#) appears.

1.2 Election Index

The Election Index provides access to all elections with data currently residing on the ScanServer. You can select any election to view its details, and the [Dashboard](#) for that election appears in its own browser tab.

Election	Cards	Unreadable	Unresolved	Boxes	Ballot Type	Phase	Scan Date	Tabulation Date
ma_clearcounty_2017g	15,502	4	0	47	CBG1	scanning	2017-11-07	2017-11-07

Figure 1-1. Election Index (default columns shown)



All links on the Election Index open [Web reports](#). Click the **Show/Hide Columns** button to select data to display.

Access

The Election Index appears when you log in to an election administration station.

Data

Data for each election includes:

- **Election**—Name of an election whose data resides on the ScanServer. Opens the [Dashboard](#) for that election.
- **Images**—Total number of images scanned for the election to date.
- **Cards**—Number of cards scanned for the election to date, not including those judged to be nonballots. Opens the [Card Images](#) report.
- **Unreadable**—Number of scanned cards requiring manual resolution. Opens the [Card Images](#) report.
- **% (Unreadable)**—Percentage of scanned cards requiring manual resolution.
- **Unresolved**—Number of unreadable cards awaiting manual resolution. Opens the [Card Images](#) report.
- **% (Unresolved)**—Percentage of unreadable cards awaiting manual resolution.
- **Boxes**—Number of boxes scanned for the election. Opens the [Card Inventory](#) report.

- **Precincts**—Number of precincts involved in the election.
- **ScanStations**—Number of ScanStations involved in the election. Opens the [ScanStation](#) report.
- **Ballot Type**—Ballot type for the election.
- **Phase**—Current phase of the election (Scanning, Reviewing, or Closed).
- **Scan Date**—Date when scanning occurred or started (yyyy-mm-dd).
- **Tabulation Date**—Date when tabulation occurred or started (yyyy-mm-dd).

1.3 Dashboard

For each election, the ClearCount system displays a Dashboard that summarizes some key statistics about the election operations. The Dashboard also offers a drop-down menu in its title bar for accessing several election reports.

Clear Ballot		Reports for Clear_County_2016g	Betty
Clear County General Election, Nov 08, 2016			
Dashboard			
Election Data		Visual Resolution of Unreadable Cards	
Election Phase	reviewing	Unreadable card images needing resolution	18
Ballot type	CBG1	Unreadable cards resolved & adjudicated	0
Approx ballot image dimensions	8.5" x 17.0"	Unvotable unreadable cards (could be resolved by rescanning 0 boxes):	
# Card styles	218	Occluded or incomplete unreadable images	0
# Contests	98	Scanned unreadable images with multiple overlapping cards	0
# Choices	258	Unreadable resolved as a non-ballot	0
# Parties	65	Unreadable cards	18
# Counter groups	6		
# Precincts	2517	Card Reconciliation	
# Precincts and card styles	5248	Cards automatically adjudicated	198
Ballot Scanning Operations		Adjustments to card count for Unreadables & Modifications	
Scan date	2017-01-12	Unreadable cards	+18
Tabulation date	2017-01-12	Cards resolved as a non-ballot	0
Tabulator software version	Version 1.3.2 2016-10-12	Cards (originally non-ballots) resolved as a ballot	0
	16:04:57	Estimated additional cards in multiple overlapping cards	0
# Scanners	4	Adjustment to card count from visual resolution	+18
# Boxes scanned	4		
# Precincts scanned	1 out of 2517	Final Total Card Count	216
# Cards automatically adjudicated	198		
# Pages judged to be non-ballots	4		
# Unreadable cards (8.18% rate)	18		
# Pages scanned (ballots and non-ballots)	220		
# Cards that are fully blank	17		

The Dashboard contains the following sections:

- [Election Data](#)
- [Ballot-Scanning Operations](#)

- [Visual Resolution of Unreadable Cards](#)
- [Card Reconciliation](#)

1.3.1 Election Data section

The Election Data section of the [Dashboard](#) provides basic information about the election, including:

- **Election phase**—Current phase of the election (Scanning, Reviewing, or Closed).
- **Ballot type**—Ballot type for the election.
- **Approximate ballot image dimensions**—Height and width of the card style in inches.
- **# Card styles**—Number of card styles for the election. Opens the [Card Styles](#) report.
- **# Contests**—Number of contests in the election. Opens the [Contests](#) report.
- **# Choices**—Number of choices in the election.
- **# Parties**—Number of parties represented in the election.
- **# Counter groups**—Number of counter groups represented in the election. Opens the [Statement of Cards Cast with Counter Groups](#) report.
- **# Precincts**—Number of precincts participating in the election. Opens the [Statement of Cards Cast with Precincts](#) report.
- **# Precincts and card styles**—Number of unique combinations of precinct and card styles. Opens the [Precinct and Card Style](#) report.



With the exception of the number in the # Precincts and card styles row, each of these values is filled out at the start of the election and does not change over the course of the scanning operation. As cards from precincts are scanned, the value in the # Precincts and card styles row increases until at least one card from each of the precincts is scanned.

1.3.2 Ballot-Scanning Operations section

The Ballot-Scanning Operations section of the [Dashboard](#) provides details about the scanning operation and access to the cards scanned for an election. Data and links include the following.

- **Scan date**—Date when scanning occurred or started (yyyy-mm-dd).
- **Tabulation date**—Date when tabulation occurred or ended (yyyy-mm-dd).
- **Tabulator software version**—Version of BallotTabulator.exe. Value is an identifier.
- **# Scanners**—Number of scanners used for the election. Opens the [ScanStation](#) report.
- **# Boxes scanned**—Number of boxes of cards scanned for the election. Opens the [Card Inventory](#) report.
- **# Cards automatically adjudicated**—Number of cards scanned for the election without need for manual resolution (unreadable cards are not included). Opens the [Card Images](#) report.

- **# Pages judged to be nonballots**—Number of nonballot cards scanned for the election. This count includes target cards, as well as any stray or extraneous pages included in the ballots. Opens the [Card Images](#) report.
- **# Unreadable cards (*n*% rate)**—Number and overall percentage of cards that require review because the system cannot read them for reasons such as stains, tears, folded corners, and scanner misfeeds. Opens the [Card Images](#) report.
- **# Pages scanned (ballots and nonballots)**—Total number of pages scanned. Opens the [Card Images](#) report.
- **# Cards that are fully blank**—Cards with no ovals marked. Opens the [Card Images](#) report.

1.3.3 Visual Resolution of Unreadable Cards section

The Visual Resolution of Unreadable Cards section of the [Dashboard](#) provides details about the cards that the ClearCount system is initially unable to tabulate. Information includes current resolution status data.



In an election where all cards are properly scanned and automatically analyzed, the Visual Resolution of Unreadable Cards section contains only zeroes.

Items in the Visual Resolution of Unreadable Cards section include:

- **Unreadable card images needing resolution**—Number of initially unreadable cards that remain unresolved. Opens the [Card Resolutions](#) report.
- **Unreadable cards resolved & adjudicated**—Number of initially unreadable cards already resolved by election officials. Opens the [Card Resolutions](#) report.
- **Unvotable unreadable cards (could be resolved by rescanning *n* boxes)**—*n*, a variable, opens a view of the [Card Inventory](#) report that identifies which boxes contain the unvotable cards.
 - **Occluded or incomplete unreadable images**—Number of cards that cannot be adjudicated without rescanning because of occlusions or incomplete images. Opens the [Card Images](#) report.
 - **Scanned unreadable images with multiple overlapping cards**—Number of cards that cannot be adjudicated without rescanning because of multifeeds. Opens the [Card Images](#) report.
- **Unreadable resolved as a nonballot**—Number of unreadable items resolved as nonballots; these are usually work pages. Opens the [Card Images](#) report.
- **Unreadable cards**—Total number of scanned cards requiring manual resolution. Opens the [Card Images](#) report.



See "Resolving card tabulation issues" in the *ClearCount Election Administration Guide* for information about processing unreadable cards.

1.3.4 Card Reconciliation section

The Card Reconciliation section of the [Dashboard](#) provides the current state of the election in the ClearCount database, counting which ballots were successfully tabulated and which require additional attention. Each link in this section displays the specific card images.

Items in the Card Reconciliation section include the following:

- **Cards automatically adjudicated**—Number of cards scanned for the election without need for manual resolution (unreadable cards are not included). Opens the [Card Images](#) report.
- **Adjustments to card count for unreadables & modifications**
 - **Unreadable cards**—Number of scanned cards identified by the ClearCount system as unreadable, exclusive of nonballots and multifeeds. Opens the [Card Images](#) report.
 - **Cards resolved as a nonballot**—Number of unreadable items resolved through the ClearCount system as nonballots; these are usually work pages. Opens the [Card Images](#) report.
 - **Cards (originally nonballots) resolved as a ballot**—Number of scanned cards originally identified by the ClearCount system as nonballots that have been resolved manually as ballots.
 - **Estimated additional cards in multiple overlapping cards**—Estimated number of cards resolved through the ClearCount system as multiple cards because scanning initially processed multiple cards (a multifeed) as single images.
 - **Adjustment to card count from visual resolution**—Net change to the number of cards counted by the ClearCount system due to manual resolution.
- **Final Total Card Count**—Total number of cards judged to be ballots that were processed by the ClearCount system.

1.4 Reports menu

The Reports for *ElectionName* drop-down menu located in the title bar of the [Dashboard](#) provides a selection of key reports for the active election.

Report types include:

- [Election reports](#)
- [Other items](#)

ELECTION REPORTS	
Statement of Votes Cast	
Statement of Cards Cast	
Dashboard	
Contests Report	
Statement of Votes Cast with Precincts	
Generate PDF Report...	
OTHER ITEMS	
Card Inventory	
Write-in Contests	
Vote Centers	
Election Activity Log	
Card Resolutions	
Causes of Unreadable Cards	
Card Locator	
Merged ClearCast Results	

1.4.1 Election reports

The ClearCount system provides the following [web reports](#) through the Reports menu:

- [Statement of Votes Cast report](#)
- [Statement of Cards Cast report](#)
- [Contests report](#)
- [Statement of Votes Cast with Precincts report](#)

The Election reports section also includes links to the [Dashboard](#) and the [Generate PDF Report page](#).

1.4.2 Other items on the Reports menu

The Reports menu also provides easy access to these key items:

- [Card Inventory report](#)
- [Write-in Contests report](#)
- [Vote Centers report](#)
- Election activity log (see the *ClearVote Election Administration Guide*)
- [Card Resolutions report](#)
- [Causes of Unreadable Cards report](#)
- [Card Locator report](#)
- [Merged ClearCast Results](#)

Chapter 2. Web reports


After logging in to the ClearCount system on an election administration station, you can access the ClearCount web reports from the [Election Index](#), from the [Dashboard](#), from the [Reports menu](#) of the Dashboard, or from other reports.

2.1 Controls on web report and log pages

The web reports and log pages include the following controls.

Table 2-1. Controls on web report and log pages

Control	Description
User settings (stored locally)	
Entries per page	Controls how many entries display on each page without affecting search scope. Selections include: 10, 20, 50, 100, and All.
Show/Hide columns	Provides a list of selectable columns and the Restore Original and Show All options. Customize the display by selecting or deselecting the checkbox for a column.
Column sorter	If a column can be used to sort the table, the control appears to the right of its heading. A three-click sequence sorts the table rows by lowest to highest, highest to lowest, and default order based on the selected column.
Filters	
Filter fields	<p>Filters the field by the selected filter options. Filter options include, but are not limited to, parameters such as Precinct, Counter Group, Contest, ScanStation, and Box. The default selection for all filtering options is All except when they are preselected to show a specific set of data.</p> <ul style="list-style-type: none"> • Use the arrow keys to move up and down within a list of filter options. • Type alphanumeric characters into a filter field to advance to a matching option in the list. • Select multiple filters without dismissing a drop-down by pressing the Ctrl key as you click each option. • Press the Enter key to select a highlighted option. • Click the X on a selected filter option to remove it.
Change	Applies the selected filter field options to the table data.

Control	Description
Filter table	<p>Incremental search string applied to all visible columns of a report. When you type a value into the Filter table field, the table is automatically filtered according to the value.</p> <p>For reports that are divided into sections, the Filter table field searches the section headers as well as the data rows. If a filter string is found in a section header, the entire section is shown in the filtered table.</p> <p>The Filter table performs a search for discreet strings of characters and numbers:</p> <ul style="list-style-type: none"> When searching for a single digit, it is found if any string contains that value. For example <i>1</i> is found in the value <i>1</i> and in the value <i>16</i>. Filter table does not search for phrases. Values separated by a space are treated as separate, but cumulative, values in the search. For example, if you enter the value <i>1 Day</i>, the two values are searched for separately. Any rows that contain both values anywhere within the row are found, such as <i>1 Day</i>, <i>1 Fine Day</i>, or even a row with <i>District 1</i> and <i>Day 4</i> in separate columns.
Navigation	
First	Displays the first page of the current report.
Previous	Displays the previous page of the current report. The keyboard shortcut is <i>p</i> .
Next	Displays the next page of the current report. The keyboard shortcut is <i>n</i> .
FF	Automatically steps through the pages of the current report until the last page is reached or you press the Esc key. To set the paging speed, click once to advance every 2 seconds, twice to advance every second, three times to advance every 0.5 second, four times to advance every 0.25 second. Incremental clicks speed up forwarding; a fifth click stops it. The keyboard shortcut is <i>f</i> .
Last	Displays the last page of the current report.
Sharing	
Print Table	<p>Displays a view of the entire current report that is simplified by omitting all controls. The print view replaces the report view in the browser window tab instead of opening in a new tab or window. In the print view, you can sort the table by columns and the sort order is maintained when you press the Esc key to return to the report view.</p> <div>  <p>After using the browser's print command, press the Esc key to return to the report view. (Do not click the browser's Back button because it returns to the page viewed before the most recent report.)</p> </div>

Control	Description
Copy	Copies the entire table for pasting into another application, such as Notepad.
CSV	Saves the entire report in a comma-separated values (CSV) file that you can open in Notepad or Microsoft Excel. The location and filename are user-defined.

2.2 Web report descriptions

All users with access to an election can view its reports. All reports are read-only.



The following ClearCount web reports are described in alphabetical order.

2.2.1 Card Images report

The Card Images report provides access to thumbnail images of a filtered set of cards in the ClearCount database for the selected election.

Figure 2-1. Card Images report

The Thumbnail Size control (and its Change button) are used to change ballot image size (in pixels) for easier viewing when entries per page is more than 1. Images are not visible when the size is set to 0.

The Card Images report can process up to 100,000 images. (This is *not* a restriction on the number of cards that can be tabulated for an election.) If the message *Warning: Results limited to 100,000 cards.* appears, you can filter the records to search a smaller subset of cards.

Access

- Click links to card images provided in many web reports, such as the [Card Inventory](#) report, the [Card Resolutions](#) report, and others.
- From the [Ballot-Scanning Operations](#) section of the Dashboard, click the numeric value of Cards automatically adjudicated, Unreadable cards, Pages scanned (ballots and nonballots) or Cards that are fully blank. Clear Ballot advises *not* using the Dashboard to access this report unless an election is small.

Data

Data for each card includes:

- **Side 1 Image**—Image of the front of the card.
- **Side 2 Image**—Image of the back of the card.
- **Scan Time**—Time when the card was scanned.
- **Unreadable Reasons**—Reasons why an unreadable card cannot be read. This column is blank for automatically adjudicated cards.
- **Resolution Status**—For any card image processed through the Card Resolutions tool, indicates the way that the card was manually resolved. Empty if automatically adjudicated.
 - Resolved and tabulated
 - Resolved as nonballot
 - Resolved as occluded (cannot be voted)
 - Resolved as multiple ({n}) cards in a single image (cannot be voted)
 - Manual override of automatic adjudication
- **Precinct Style Name**—This is similar to the ballot style and shows split information, if available.
- **Card Style**—Unique identifier for the card style of the card.
- **Card ID**—Unique identifier for the front card image. Opens the visually annotated card image.

2.2.1.1 Visually annotated cards

The ClearCount system provides a visually annotated version of each card image that can be used for manual confirmation of system results.



This capability is useful for testing ballot definitions prior to an election, and for countering challenges.

To review the visually annotated version of a card:

1. From the [Dashboard](#), click the **Reports** drop-down menu and select **Card Inventory**.
2. From the [Card Inventory](#) report, select a box ID. The [Card Images](#) report appears.
3. Locate the card you want to review and click the card image to enlarge it. The full card image appears accompanied by card information on the left side.

The screenshot displays the 'Clear Ballot' web application interface. At the top, the navigation bar includes the 'Clear Ballot' logo and a dropdown menu for 'Reports for ClearCounty_2016p'. A red circle highlights a link labeled 'Show visually annotated card ED-002+10007'. Below this link, a list of card details is provided: Image Name (ED-002+10007.jpg), Image Scan Time (2016-03-22 15:10:56), Scanned by Computer (ClearBallot), Scanner Model (FUJITSU fi-6800dj #2), Scanner Serial (A20DC10378), Precinct Style Name (Precinct 30), and Card Style (3). A section titled 'I: Implied by straight party' includes a 'Modify Adjudication' button. Below this, a list of candidates for 'Madison City County Judge (Single Precinct and Write-in)' is shown, with 'Natalie Ward (Independent)' highlighted in green. The main area of the screenshot shows a scanned ballot card. The card header reads 'VOTE BOTH SIDES' and 'OFFICIAL BALLOT FOR GEORGETOWN ELECTION CLEAR COUNTY, JEFFERSON COUNTY, JUNE 21, 2015'. The ballot includes 'VOTING INSTRUCTIONS' and a section for 'JEFFERSON STATE OFFICES'. The first office listed is 'Madison City Clear County Judge', with a 'Vote for one' instruction and a list of candidates: Juan Garcia (Cyan Party), David Wilson (Beige Party), Diana Hernandez (Magenta Party), Tony Cho (Teal Party), Erica Roberts (Independent), and Natalie Ward (Independent). The second office listed is 'Shall the people of Jefferson County recall Rep. Jonathan R. from the House of Representatives', with a 'Vote Yes or No' instruction.

The side information includes:

- The Show visually annotated card link
- The image name
- The image scan time
- The name of the computer that scanned the image
- The model of the scanner
- The scanner serial number
- The precinct style name of the card
- The card style
- A legend of implicit and explicit choice modifications
 - **R: Manual resolution replaced automatic adjudication**—when a choice has been modified due to manual adjudication by election officials
 - **I: Implied by straight party**—when a choice is considered *voted* even though it was not explicitly selected by the voter; occurs when a contest is controlled by a straight-party selection contest

- **O: Overridden by crossover**—when a choice that was explicitly selected by the voter is overridden because the voter marked contests in multiple parties; occurs in a primary election when contests for multiple parties are on the same ballot
 - **O: Overridden by straight party**—when a choice was explicitly selected by the voter, but is not *voted* because the contest containing the choice was controlled by a straight-party contest, which caused the explicitly selected choice to be overridden
 - The Modify Adjudication button
 - The list of contests and choices for the card
 - Choice names in black indicate automatic adjudication by the ClearCount system
 - Choice names in green indicate that the choices were manually resolved
 - Choice names in red indicate overvoted choices
 - Choice names in purple indicate undervoted contests
4. Click the **Show visually annotated card** link in the upper left corner. The annotated version of the card image appears.
- Each votable choice (oval) for every election is outlined by a red rectangle.
 - Each valid voter selection is marked by a green bar.
 - Any overvote is marked by a red bar.

Madison City County Judge (Single Precinct and Write-in)

Madison City Clear County Judge

Vote for one

Juan Garcia ☒ Juan Garcia Cyan Party

David Wilson ☐ David Wilson Beige Party

Diana Hernandez ☐ Diana Hernandez Magenta Party

Tony Cho ☐ Tony Cho Teal Party

Erica Roberts ☐ Erica Roberts Independent

Natalie Ward ☐ Natalie Ward Independent

Write-in

County Parks Board (Choose 2 out of 8 n/m)

Clear County Parks Board

Vote for two

Joseph MacDonald ☒ Joseph MacDonald Cyan Party

Simon Fischer ☐ Simon Fischer Beige Party

Rebecca Hernandez ☐ Rebecca Hernandez Beige Party

Write-in

Shall Judge William S. Clark of the 1st Jefferson State Judicial Circuit be retained?

Vote Yes or No

Yes ☒ Yes

No ☐ No

Shall the people of Jefferson State recall Rep. Jonathan R. Simpson from the House of Representatives?

Vote Yes or No

Yes ☒ Yes

No ☐ No

In the case that Rep. Jonathan R. Simpson is recalled the following candidate race will be declared valid.

Figure 2-2. Example of visual annotations (Dominion ballot)



The Visually Annotated Cards page can also be accessed from the [Vote Visualization report](#) by clicking any oval.

2.2.2 Card Inventory report

The Card Inventory report details the contents of each ballot box.

BoxID	Cards	Unreadable	%	Scan Station	Scanner Model	Scanner Serial	Start Scan Time	Scan Duration	Cards Per Hour	# Precinct Styles
ED-001	34	0	0.00%	ScanStation03	FUJITSU fi-6800dj #2	100295	2015-09-28 13:40:06	0:00:24	5,100	5
ED-002	25	0	0.00%	ScanStation03	FUJITSU fi-6800dj #2	100295	2015-09-28 13:46:34	0:00:18	5,000	3
EV-001	34	0	0.00%	ScanStation03	FUJITSU fi-6800dj #2	100295	2015-09-28 13:34:36	0:00:56	2,185	5
EV-002	25	0	0.00%	ScanStation03	FUJITSU fi-6800dj #2	100295	2015-09-28 13:45:28	0:00:18	5,000	3

Figure 2-3. Card Inventory report (default columns shown)

Access

- From the [Other items](#) section of the Reports menu, choose **Card Inventory**.
- From the [Precinct and Card Style](#) report, click the numeric value of # Boxes.
- From the Links drop-down menu in many reports, including the [Statement of Votes Cast](#) report, select **Box List**.

Data

Data for each box includes:

- **Box ID**—Unique identifier for the box. Opens the [Card Images](#) report.
- **Cards**—Number of cards in the box, not including those judged to be nonballots. Opens the [Card Images](#) report.
- **Unreadable**—Number of unreadable cards in the box. Opens the [Card Images](#) report.
- **(Unreadable) %**—Percentage of unreadable cards in the box.
- **ScanStation**—Name of the ScanStation where the box was scanned.

- **Scanner Model**—Model number for the configured scanner.
- **Scanner Serial**—Serial number of the configured scanner.
- **Start Scan Time**—Time when scanning of the box began.
- **End Scan Time**—Time when scanning of the box ended.
- **Scan Duration**—Length of time taken to scan the box.
- **Cards per Hour**—Rate the cards in the box were scanned.
- **# Precinct Styles**—Number of distinct precinct/card style combinations in the box. Opens the [Precinct and Card Style](#) report for the contest.

Filters include: Precinct, Counter Group, Contest, ScanStation, and Box. Select filter options and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.3 Card Locator report

The Card Locator report supports physical retrieval of specific cards by allowing the user to search for specific card images using filter criteria. This capability is useful when cards are commingled.



This report is blank when it opens. You must select filter criteria and click **Change** to populate the table with results.

Card ID	Precinct	Card Style	ImageNumberFromLast
ED-002+10003	03	20	3
ED-002+10005	03	20	2
ED-002+10007	03	20	2

Figure 2-4. Card Locator report (default columns shown)

Access

From the [Other items](#) section of the Reports menu, choose **Card Locator**.

Data

Data for each card listed in the results includes:

- **Card ID**—Unique identifier for the card.
- **Precinct**—This is similar to the card style and shows split information, if available.
- **Card Style**—Unique identifier for the card style of the card.
- **Image Number From Last**—Number of images between the card images in the current and preceding rows. (This parameter is equivalent to the Scan the specified number of pages setting in ScandALL PRO's Scan Settings dialog, which is described in "Scanning for a specific card" in the *ClearCount Election Administration Guide*.

Filters include: Precinct, Counter Group, Contest, and ScanStation. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.4 Card Resolutions report

The Card Resolutions report shows the unresolved unreadable cards for the selected election and the manual resolutions recorded to date.

General Election, Jun 21 2016, Clear County Card Resolutions

Filter table:

Unresolved Cards

Show / hide columns

Card ID	Resolution Status	Unreadable Reason(s)
OT-008+10019	Not yet resolved	Timing marks found on one side, but not on the other side
OT-008+10021	Not yet resolved	Timing marks found on one side, but not on the other side
OT-008+10029	Not yet resolved	Wrong number of RIGHT timing marks (36 at most, expected 41)
OT-008+10031	Not yet resolved	Wrong number of RIGHT timing marks (36 at most, expected 41)

5 entries per page 1 to 4 of 4

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Resolved Cards

Filter table:

Show / hide columns

Card ID	Resolution Status	Resolver	Resolution Date
No data available in table			

5 entries per page 0 entries

First Previous Next FF Last Copy CSV Print Table

Figure 2-5. Card Resolutions report (default columns shown)

Access

From the [Other items](#) section of the Reports menu, choose **Card Resolutions**.

Data

Data for each card includes:

- **Unresolved Cards:**
 - **Card ID**—Unique identifier for the card. Opens the [Card Images](#) report.
 - **Resolution Status**—Indicates that the card is unresolved.
 - **Unreadable Reason**—Explains why the card could not be adjudicated automatically.
- **Resolved Cards:**
 - **Card ID**—Unique identifier for the card. Opens the [Card Images](#) report.
 - **Resolution Status**—Indicates the way that the card was manually resolved.
 - Resolved and tabulated
 - Resolved as nonballot
 - Resolved as occluded (cannot be voted)
 - Resolved as multiple ({n}) cards in a single image (cannot be voted)
 - Manual override of automatic adjudication
 - **Resolver**—Name of the ClearCount user who resolved the card.
 - **Resolution Date**—Time when the card was resolved.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.4.1 Card Resolutions tool

Clicking a value in the Card ID column of the [Card Resolutions report](#) displays the corresponding card image and provides access to the Card Resolutions tool.

- If your access level is read or below—You cannot resolve card issues and the Card Resolutions tool is not available.
- If your access level is modify or above—You can resolve card issues and the Card Resolutions tool is available.

See "Resolving card tabulation issues" in the *ClearCount Election Administration Guide* for more information.

Figure 2-6. Card Resolutions tool

2.2.5 Card Styles report

The Card Styles report provides the number of ballots and precincts using each card style and a link to a sample ballot of each style.

Card Style	Ballots	# Precincts	Sample Card	Blank Card PDF File Name
16	5	1	AB-001+10003	16-0ARE10-STANDA-<NP>-EN-FB.pdf
17	4	1	ED-001+10007	17-0ARE20-STANDA-<NP>-EN-FB.pdf
18	3	1	AB-001+10005	18-0ARE30-STANDA-<NP>-EN-FB.pdf
19	3	1	ED-001+10023	19-02-STANDA-<NP>-EN-FB.pdf
20	3	1	ED-002+10003	20-03-STANDA-<NP>-EN-FB.pdf

Figure 2-7. Card Styles report (default columns shown)

Access

From the [Election Data](#) section of the Dashboard, click the numeric value of # Card styles.

Data

Data for each card style includes:

- **Card Style**—Unique identifier for the card style of the card.
- **Ballots**—Number of cards using the card style. Opens the [Card Images](#) report.
- **# Precincts**—Number of precincts using the card style. Opens the [Precinct and Card Style](#) report.
- **Sample Card**—Example of the card style, if available. Opens a visually annotated image of the sample card.
- **Blank Card PDF Filename**—Name of the PDF source file for the card style.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.6 ClearCast Merged Results report

The ClearCast Merged Results report provides a summary of ClearCast election results that have been merged into the ClearCount system.

Clear Ballot

Reports for Clear County_2016g

Betty

General Election, Nov 8, 2016, Clear County, US

Filter table:

ClearCast Merged Results

2 of 5 Vote Centers have completely merged their ClearCast results. 4 of 7 ClearCast devices have merged their results.

Merge More ClearCast Results

Show / hide columns

Vote Center	Device Name	Device Serial	Box ID	Cards	# Precinct Styles	Merge Time	Merged By
Election Day 6-7 Precincts	A3957DBS123	558812365987450	AB-6587953	4	4	2018-03-16 12:10:17	admin
Election Day 1-5 Precincts	A39572223588729A	1234567890	ED-6500786	5	5	2018-03-16 12:09:33	admin
Early Voting 1-3 Precincts	A3957DBS456	528495328774	AB-6659901	3	3	2018-03-16 12:07:41	admin
Election Day 1-5 Precincts	B3957DBS123	00625781548	ED-6766969	3	3	2018-03-12 19:28:00	admin

5 entries per page

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Figure 2-8. ClearCast Merged Results report

Access

From the [Other items](#) section of the Reports menu, choose **Merged ClearCast Results**.

Data

Data for each vote center includes:

- **Vote Center**—Name of the vote center that was set within the ClearDesign election management system (EMS).
- **Device Name**—Name of the ClearCast voting station.
- **Device Serial**—Serial number of the ClearCast voting station.
- **Box ID**—Unique identifier for the box. Opens the [Card Images](#) report.
- **Cards**—Number of cards in the box, not including those judged to be nonballots. Opens the [Card Images](#) report.
- **# Precinct Styles**—Number of distinct precinct/card style combinations in the box. Opens the [Precinct and Card Style](#) report for the contest.
- **Merged Time**—Date and time that the box was merged into the ClearCount system.
- **Merged By**—User who performed the merge.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display. Click the **X of X Vote Centers** link to open the "Vote Centers report" on page 48. Click the **Merge More ClearCast Results** button to merge additional election results from ClearCast voting stations.

2.2.7 Contests report

The Contests report provides details, including winners, for each contest in the selected election.

Clear Ballot Reports for Clear County_2016g Betty

General Election, Nov 8, 2016, Clear County, US

Contests Report

Precinct: All Counter Group: All Box: All **Change**

Filter table:

Show / hide columns

Contest	# Precincts	# Ballots	Voted	Blank Voted	Over Voted	Over Voted %	Margin	Margin %
Governor / Lt. Governor	1	3	3	0	0	0	3	100.00%
Comptroller	1	3	3	0	0	0	1	33.33%
Attorney General	1	3	3	0	0	0	3	100.00%
U.S. Senator	1	3	2	1	0	0	2	100.00%
Representative in Congress District 1	1	3	1	2	0	0	1	100.00%

5 entries per page 1 to 5 of 14

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Figure 2-9. Contests report (default columns shown)



If your election includes a judge initials contest (when judge initials are required on a ballot card), a contest called *Judges Initials* appears on the Contests report. See "Resolving judge initials cards" in the *ClearCount Election Administration Guide* for more information.

Access

- From the [Election reports](#) section of the Reports menu, choose **Contests report**.
- From the [Election Data](#) section of the Dashboard, click the numeric value of # Contests.

Data

Data for each contest includes:

- **Contest**—Description of the contest. Opens the [Statement of Votes Cast](#) report.
- **Vote Rule**—Number of choices each voter can make for the contest.
- **# Choices**—Number of candidates or options. Opens the [Statement of Votes Cast](#) report.
- **# Precincts**—Number of precincts with the contest.
- **# Ballots**—Number of ballots with the contest. Opens the Contest Images view of the [Card Images](#) report showing those voted contest images.



From the Contest Images view, you can click an image's filename link to access the Modify Adjudication button to adjudicate overvotes.

- **Voted**—Number of times the contest was validly voted. Opens the Contest Images view of the [Card Images](#) report showing those voted contest images.
- **Blank-Voted**—Number of times voters skipped the contest. Opens the Contest Images view of the [Card Images](#) report showing those voted contest images.
- **Overvoted**—Number of times the contest was overvoted (the vote rule was exceeded). Opens the Contest Images view of the [Card Images](#) report showing those voted contest images.
- **Overvoted %**—Percentage of times the contest was overvoted.
- **Margin**—Number of votes needed to alter the outcome of the election, calculated as the difference between the lowest vote-getting winner and highest vote-getting loser.
- **Margin %**—Margin percentage.

Filters include: Precinct, Counter Group, and Box. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.8 Contest Images report

The Contest Images report provides access to thumbnail images of a filtered set of contest images in the ClearCount database for the selected election.

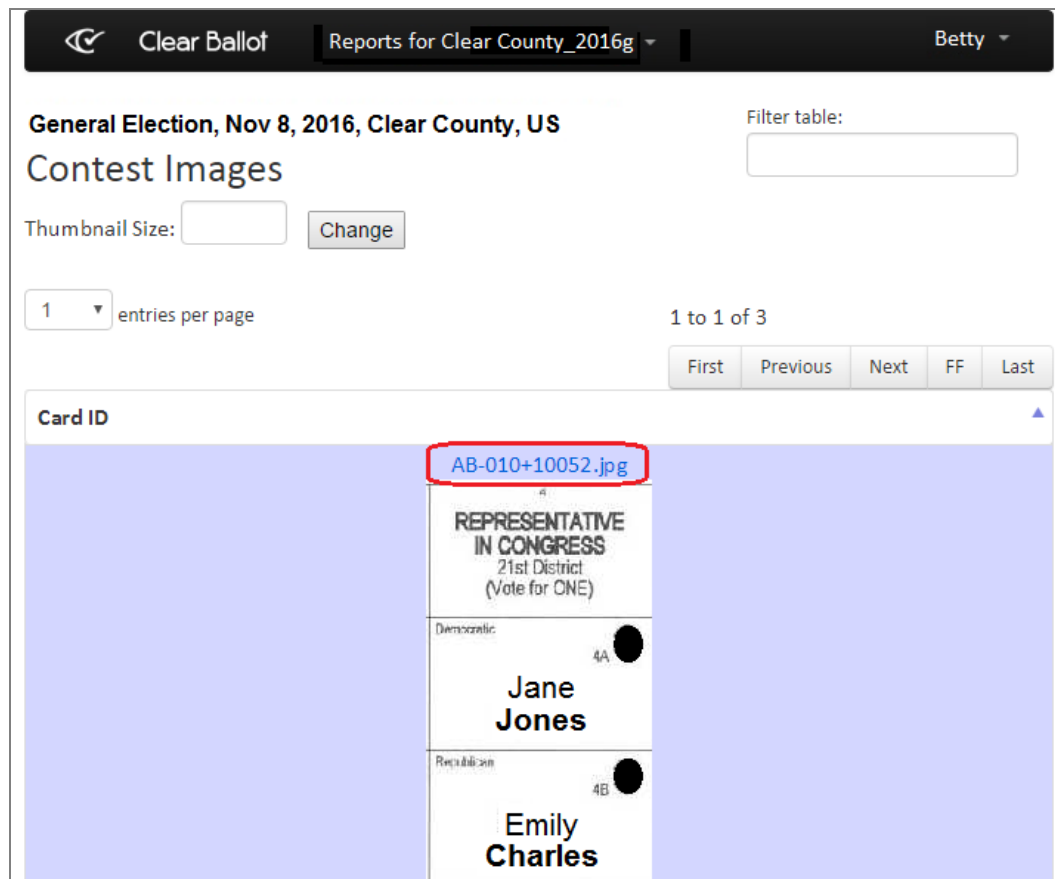


Figure 2-10. Contest Images report

The Thumbnail Size field (and its Change button) are used to change the image size for easier viewing when entries per page is more than 1. Images are not visible when the size is set to 0. Units are pixels.

Access

- Click links to images provided in web reports, such as the [Statement of Votes Cast](#) report, the [Statement of Votes Cast with Precincts](#) report, the [Contests](#) report, and others.

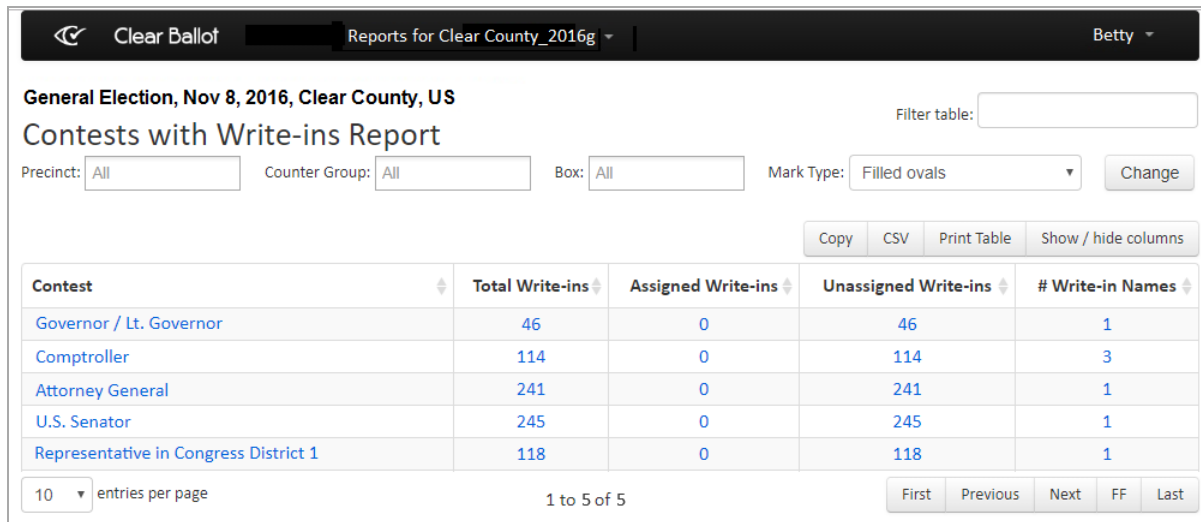
Data

Data for each image includes:

- Card ID**—Unique identifier for the front card image. Opens the full card image.

2.2.9 Contests with Write-ins report

The Contests with Write-ins report provides an overview of all contests that have write-in choices. It lists each contest with its total number of write-in choice zones (whether or not they have been voted), the number of assigned and unassigned write-in choice zones, and the number of write-in candidate names that have already been entered for that contest.



Contest	Total Write-ins	Assigned Write-ins	Unassigned Write-ins	# Write-in Names
Governor / Lt. Governor	46	0	46	1
Comptroller	114	0	114	3
Attorney General	241	0	241	1
U.S. Senator	245	0	245	1
Representative in Congress District 1	118	0	118	1

Figure 2-11. Contests with Write-ins report (default columns shown)

Access

From the [Other items](#) section of the Reports menu, choose **Write-in Contests**.

Data

Data for each contest includes:

- **Contest**—Description of the contest. Opens the [Write-in Candidates by Contest report](#).
- **Total Write-ins**—Number of write-in choice zones for the contest. Opens the [Write-in Assignments tool](#).
- **Assigned Write-ins**—Number of write-in choice zones that have been assigned to candidate names. Opens the [Write-in Assignments tool](#).
- **Unassigned Write-ins**—Number of write-in choice zones that have not been assigned to candidate names. Opens the [Write-in Assignments tool](#).
- **# Write-in Names**—Number of candidates associated with the contest as write-in candidates. By default, there is always one write-in name called *Invalid* that you can use to assign to choice zones that are not filled in with valid candidate names or text. The Invalid write-in name can be changed as jurisdictions deem appropriate. Opens the [Write-in Candidates by Contest report](#).

Filters include: Precinct, Counter Group, Box, and Mark Type. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



When selecting filters to limit the data that displays for the Contests with Write-ins report, the [Write-in Assignments tool](#) also uses those filters to limit the data that appears. The [Write-in Candidates by Contest report](#) only uses the Contest filter.

Mark types

Options for filtering data by mark type include:

- **Filled ovals**—Default, limits the data to write-in choice zones with filled ovals, including overvotes
- **Undervoted unfilled ovals**—Limits the data to write-in choice zones with unfilled ovals that are also undervotes
- **With text**—Limits the data to write-in choice zones with probable marks in the write-in choice zone, including the oval (based on density)
- **Unfilled ovals**—Limits the data to write-in choice zones with unfilled ovals
- **Unreadable cards**—Limits the data to unreadable cards that have write-in choice zones



When this filter carries over to the Write-in Assignments tool, the ovals are sorted first by Card ID (grouping all choice zones for that contest on that card together) and then by Choice ID to make adjudication of these unreadable cards easier.

- **All write-ins**—Does not limit the data; displays all write-in choice zones

2.2.9.1 Write-in Assignments tool

Clicking a value in the Total Write-ins, Assigned Write-ins, or Unassigned Write-ins column in the [Contests with Write-ins report](#) provides access to the Write-in Assignments tool.

Figure 2-12. Write-in Assignments tool

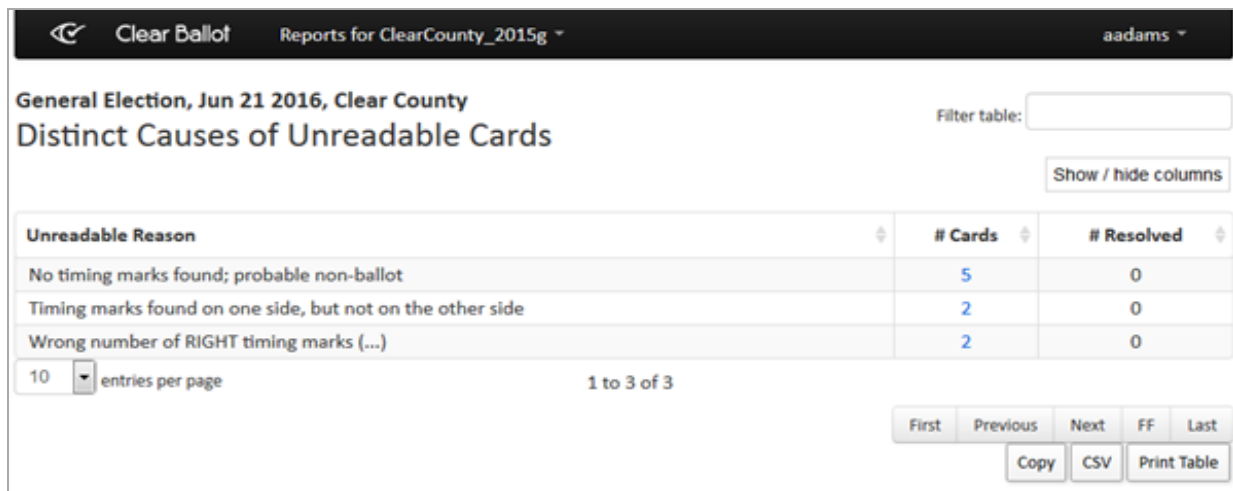


If your access level is read or below, you cannot assign write-in choices and the Write-in Assignments tool is not available. You must have an access level of modify or above to assign write-in choices.

See "Assigning write-in choices" in the *ClearCount Election Administration Guide* for more information.

2.2.10 Distinct Causes of Unreadable Cards report

The Distinct Causes of Unreadable Cards report provides an overview of why the ClearCount system could not interpret certain cards.



Unreadable Reason	# Cards	# Resolved
No timing marks found; probable non-ballot	5	0
Timing marks found on one side, but not on the other side	2	0
Wrong number of RIGHT timing marks (...)	2	0

Figure 2-13. Distinct Causes of Unreadable Cards report (default columns shown)

Access

From the [Other items](#) section of the Reports menu, select **Causes of Unreadable Cards**.

Data

Data for each error includes:

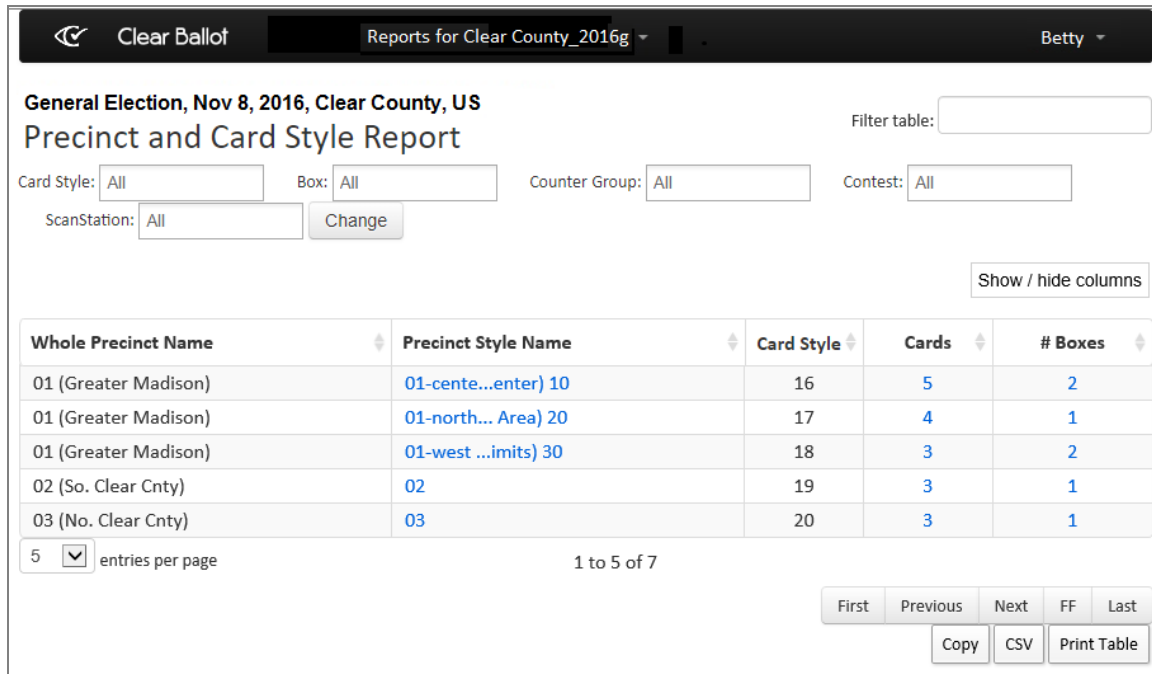
- **Unreadable reason**—Description of the reason a card was unreadable.
- **# Cards**—Number of cards that were unreadable for the given reason.
- **# Resolved**—Number of cards that were unreadable for the given reason that are already resolved.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.11 Precinct and Card Style report

The Precinct and Card Style report lists the precincts, the number of cards scanned for each one, and the corresponding ClearCount box IDs. Having this information can simplify the task of identifying scanned cards for a specific precinct.

In the Election Data section on the Dashboard, the value of the # Precincts and card styles row increases with the first card scanned from a precinct. This number does not indicate that *every* card from the precinct was successfully scanned and analyzed. However, the number is very useful for identifying the overall progress of the scanning operation. Similarly, the Precinct and Card Style report helps determine which precincts remain to be scanned.



General Election, Nov 8, 2016, Clear County, US
Precinct and Card Style Report

Card Style: All Box: All Counter Group: All Contest: All
 ScanStation: All

Filter table:

Show / hide columns

Whole Precinct Name	Precinct Style Name	Card Style	Cards	# Boxes
01 (Greater Madison)	01-cente...enter) 10	16	5	2
01 (Greater Madison)	01-north... Area) 20	17	4	1
01 (Greater Madison)	01-west ...imits) 30	18	3	2
02 (So. Clear Cnty)	02	19	3	1
03 (No. Clear Cnty)	03	20	3	1

5 entries per page 1 to 5 of 7

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Figure 2-14. Precinct and Card Style report (default columns shown)



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts.

If the scanning process for a precinct has not started, no entry for that precinct appears in the Precinct and Card Style report.

Access

From the [Election Data](#) section of the Dashboard, click the numeric value of # Precincts and card styles.

Data

Data for each precinct and card style combination includes:

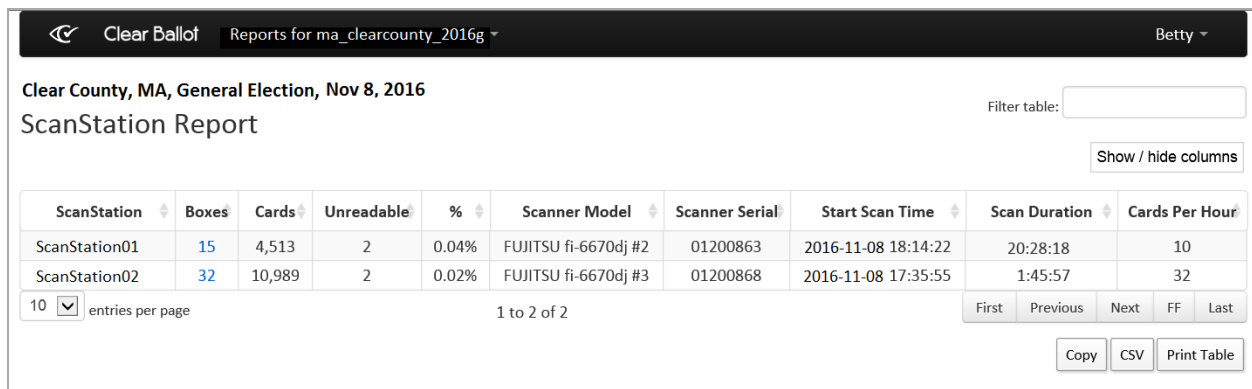
- **Whole Precinct Name**—Full name of the precinct.
- **Precinct Style Name**—This is similar to the ballot style and shows split information, if available. Opens the [Card Images](#) report showing the cards that have that precinct/card style combination.
- **Card Style**—Unique identifier of the card style for the card.

- **Cards**—Number of cards cast. Opens the [Card Images](#) report.
- **# Boxes**—Number of boxes containing the ballots. Opens the [Card Inventory](#) report.

Filters include: Style, Box, Counter Group, Contest, and ScanStation. Select filters from the filter fields and click **Change** to refilter data. Use the Filter table option with or without the filter fields to search incrementally for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.12 ScanStation report

The ScanStation report provides information about each ScanStation and scanner used in an election, the number of boxes and cards processed, the duration of the session, and the scanning rate.



ScanStation	Boxes	Cards	Unreadable	%	Scanner Model	Scanner Serial	Start Scan Time	Scan Duration	Cards Per Hour
ScanStation01	15	4,513	2	0.04%	FUJITSU fi-6670dj #2	01200863	2016-11-08 18:14:22	20:28:18	10
ScanStation02	32	10,989	2	0.02%	FUJITSU fi-6670dj #3	01200868	2016-11-08 17:35:55	1:45:57	32

Figure 2-15. ScanStation report (default columns shown)

Access

From the [Ballot-Scanning Operations](#) section of the Dashboard, click the numeric value for # Scanners.

Data

Data for each ScanStation includes:

- **ScanStation**—Identifier for the ScanStation computer.
- **Boxes**—Number of boxes scanned on that ScanStation. Opens the [Card Inventory](#) report.
- **Cards**—Number of card scanned on that ScanStation.
- **Unreadable**—Number of scanned cards found to be unreadable on that ScanStation. This number is helpful in determining whether a particular ScanStation or scanner is having issues.
- **% (Unreadable)**—Percentage of scanned cards found to be unreadable on that ScanStation.
- **Scanner Model**—Model identifier for the scanner.
- **Scanner Serial**—Serial number of the scanner.
- **Start Scan Time**—Time that scanning of the boxes began on that ScanStation.
- **End Scan Time**—Time that scanning of the boxes ended on that ScanStation.
- **Scan Duration**—Length of time taken to scan the boxes on that ScanStation.

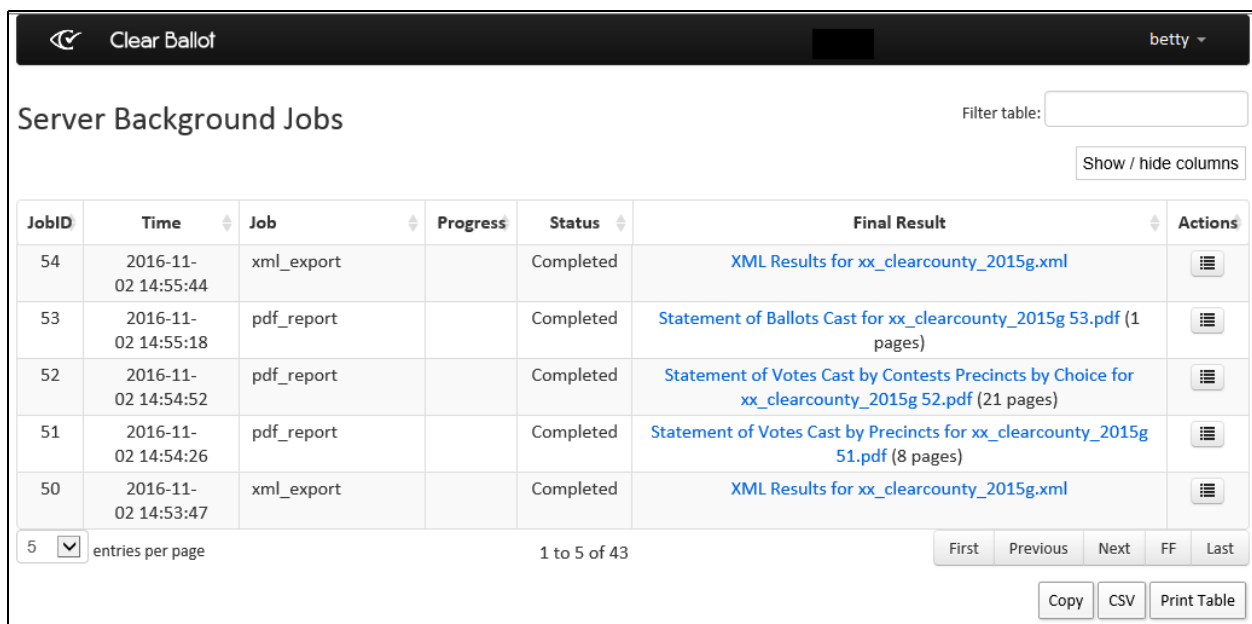
- **Cards per Hour**—Rate the cards were scanned on that ScanStation. If one ScanStation is much slower than the other ScanStations, this may be indicative of a problem.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.13 Server Background Jobs

This page displays all of the background jobs since the last ScanServer restart. It automatically opens when generating reports or performing election functions (such as backing up or restoring). The Progress indicator for the running job refreshes every 10 seconds until the job is complete. The Status column shows when a job is complete.

For PDF reports and XML results, you can click a link in the Final Result column to view the file.



JobID	Time	Job	Progress	Status	Final Result	Actions
54	2016-11-02 14:55:44	xml_export		Completed	XML Results for xx_clearcounty_2015g.xml	
53	2016-11-02 14:55:18	pdf_report		Completed	Statement of Ballots Cast for xx_clearcounty_2015g 53.pdf (1 pages)	
52	2016-11-02 14:54:52	pdf_report		Completed	Statement of Votes Cast by Contests Precincts by Choice for xx_clearcounty_2015g 52.pdf (21 pages)	
51	2016-11-02 14:54:26	pdf_report		Completed	Statement of Votes Cast by Precincts for xx_clearcounty_2015g 51.pdf (8 pages)	
50	2016-11-02 14:53:47	xml_export		Completed	XML Results for xx_clearcounty_2015g.xml	

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Figure 2-16. Server Background Jobs window with links



This page may not appear if the election is so small that the job completes before the page has time to open.

Access

From the **Server Background Jobs** option in the user name drop-down menu at the top right of a page.

Data

Data for each job includes:

- **Job ID**—Unique identifier for the job
- **Time**—Date and time that the job started

- **User**—Name of the user who performed the job
- **Job**—Type of job
- **Progress**—Progress indicator for the job while running
- **Status**—Status of the job (running, completed)
- **Duration**—Amount of time the job ran
- **Final Result**—Filename of the job
- **Actions**—Provides a drop-down menu of options for the job, such as deleting it.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.14 Statement of Cards Cast with Counter Groups report

The Statement of Cards Cast with Counter Groups report provides the number of cards for each counter group, such as early voting (EV), absentee (AB), Election Day (ED).

Clear Ballot Reports for Clear County_2016g Betty

General Election, Nov 8, 2016, Clear County, US

Statement of Cards Cast with Counter Groups

Filter table:

Precinct: Counter Group: Contest: ScanStation:

Box:

Counter Group ID	Counter Group	Cards
AB	Absentee	26
CV	Children Vote (no precinct reporting)	17
ED	Election Day	112
EV	Early Voting	26
FE	Flate Earth Society Members	16

5 entries per page 1 to 5 of 7

Figure 2-17. Statement of Cards Cast with Counter Groups report (default columns shown)

Access

From the [Election Data](#) section of the Dashboard, click the numeric value for # Counter Groups.

Data

Data for each counter group includes:

- **Counter Group ID**—Two-character identifier for the counter group.
- **Counter Group**—Name of the counter group.
- **Cards**—Number of cards scanned for that counter group. Opens the [Card Images](#) report.

Filters include: Precinct, Counter Group, Contest, ScanStation, and Box. Select filter options and click **Change** to filter data. Use the Filter table option with or without the filter fields to search incrementally for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.15 Statement of Cards Cast with Precincts report

The Statement of Cards Cast with Precincts report provides a list of cards for each precinct.



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.

Precinct	Cards	# Boxes
01 (Grea...ity Area)	40	2
02 (Sout...r County)	10	2
03 (Nort...r County)	18	2
04 (Lake...nd rural)	30	2
05 (East...r County)	20	2

Figure 2-18. Statement of Cards Cast with Precincts report (default columns shown)

Access

From the [Election reports](#) section of the Reports menu, choose **Statement of Cards Cast**.

From the [Election Data](#) section of the Dashboard, click the numeric value for # Precincts.

Data


Data for each precinct includes:

- **Precinct**—Precinct name.
- **Cards**—Number of cards scanned for that precinct. Opens the [Card Images](#) report.
- **# Boxes**—Number of boxes scanned with cards for that precinct. Opens the [Card Inventory](#) report.

Filters include: Precinct, Counter Group, Contest, ScanStation, and Box. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to search incrementally for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.

2.2.16 Statement of Votes Cast report

The Statement of Votes Cast report summarizes the tabulated vote totals of an election. In the case of cross-endorsed candidates where state law makes provisions (over-emphasis) for overvotes involving a single candidate, the vote is adjudicated by the jurisdiction in the manner prescribed by the jurisdiction.


Clear Ballot
Reports for Clear County_2016g
Betty

General Election, Nov 8, 2016, Clear County, US

Statement of Votes Cast

Precinct:
 Counter Group:
 Contest:
 ScanStation:
 Box:
☐ Show Write-ins

Choice	Ballots With Contest	Votes	Overvoted With Vote for this Choice	Undervoted Without Vote for this Choice	Links
Madison City County Judge (Single Precinct and Write-in) (Vote for 1)					
Write-in	14	39	0	0	
Diana Hernandez	14	3	0	0	
David Wilson	14	1	0	0	
Tony Cho	14	1	1	0	
Juan Garcia	14	0	0	0	
County Parks Board (Choose 2 out of 8 n/m) (Vote for 2)					
Simon Fischer	27	16	2	4	
Adam Lewis	27	10	1	5	
Leonard Cowen	27	5	1	5	

10 ☐ entries per page
 1 to 10 of 50

Figure 2-19. Statement of Votes Cast report (default columns shown)

If the election has nonvotable cards, a warning appears at the top of the report indicating that the vote totals are not yet complete.



If your election includes a judge initials contest (when judge initials are required on a ballot card), a contest called *Judges Initials* appears on the Statement of Votes Cast report. See "Resolving judge initials cards" in the *ClearCount Election Administration Guide* for more information.

Access

From the [Election reports](#) section of the Reports menu, choose **Statement of Votes Cast**.

Data

Data for each choice includes:

- **Choice**—Candidate/Option for which votes are reported.
- **Ballots with Contest**—Number of scanned cards containing this contest. Opens the [Card Images](#) report.
- **Votes**—Number of votes for the choice. Opens the Votes section of the [Vote Visualization](#) report.
- **Overvoted with Vote for this Choice**—Number of ballots where the contest was overvoted and this choice was one of those marked. Opens the Overvotes section of the [Vote Visualization](#) report.
- **Undervoted without Vote for this Choice**—Number of ballots where the choice's vote target was empty and the number of votes tabulated for all choices in that contest was fewer than allowed by the voting rule. Opens the Undervotes section of the [Vote Visualization](#) report.
- **Ballots with Votes for Others**—Ballots awarded to another choice.
- **Links**—Provides a drop-down menu. Choices include:
 - **Precinct Subtotals**—Opens the [Statement of Votes Cast with Precincts](#) report.
 - **Counter Group Subtotals**—Opens the [Statement of Votes Cast with Counter Groups](#) report.
 - **Party Subtotals**—Opens the [Statement of Votes Cast with Parties](#) report.
 - **Box List**—Opens the [Card Inventory](#) report.

Filters include: Precinct, Counter Group, Contest, ScanStation, Box, and Show Write-ins. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



When this report is filtered by precinct and the **Redact Small Vote Subtotals** option is selected on the Election Administration page, subtotals of fewer than 10 votes are hidden to ensure individual voter's confidentiality.

Showing write-ins—Select the **Show Write-ins** check box to display a sublist of the write-in candidate names and votes at the bottom of the Choice column for each contest that includes write-in choices. Candidate names appear preceded by *[Write-in]*.

Clear Ballot Reports for Clear County_2016g Betty

General Election, Nov 8, 2016, Clear County, US

Statement of Votes Cast

Filter table:

Precinct: All Counter Group: All Contest: All ScanStation: All

Box: All ☒ Show Write-ins Change

Show / hide columns

Choice	Ballots With Contest	Votes	Overvoted With Vote for this Choice	Undervoted Without Vote for this Choice	Links
Madison City County Judge (Single Precinct and Write-in) (Vote for 1)					
Write-in	14	39	0	0	
Diana Hernandez	14	3	0	0	
David Wilson	14	1	0	0	
Tony Cho	14	1	1	0	
Juan Garcia	14	0	0	0	
[Write-in] Simon Fischer		13			
[Write-in] Adam Lewis		9			
[Write-in] Invalid		17			

10 ☐ entries per page 1 to 10 of 50

First Previous Next FF Last

Copy CSV Print Table

Figure 2-20. Statement of Votes Cast report showing write-ins sublist



When a contest includes multiple write-in choices, *Write-in* appears in the Choice column the equivalent number of times.



The ClearCount system removes all duplicate write-in candidate assignments (when a unique write-in candidate name is assigned to more than one write-in choice zone for the same contest on the same card). When a duplicate is removed, it appears on the Statement of Votes Cast report as *[Write-in]Duplicate*. The ClearCount system does *not* remove a write-in candidate assignment when it is a duplicate of a certified candidate listed on the ballot.



The report does not include candidate names (or the unassigned category) that have zero votes.

2.2.17 Statement of Votes Cast with Counter Groups report

The Statement of Votes Cast with Counter Groups report provides election subtotals by counter group, such as early voting (EV), absentee (AB), Election Day (ED).

Clear Ballot Reports for xx_clearcounty_2015g Betty

Clear County, General Election, Dec 03 2015

Statement of Votes Cast with Counter Groups

Precinct: All Counter Group: All Contest: All ScanStation: All

Box: All ☐ Show Write-ins Change

Filter table:

Show / hide columns

Choice	Counter Group	Ballots With Contest	Votes	Overvoted With Vote for this Choice	Undervoted Without Vote for this Choice
Madison City County Judge (Single Precinct and Write-in)) (Vote for 1)					
David Wilson	Absentee	3	1	0	0
David Wilson	Election Day	11	4	0	0

10 entries per page 1 to 2 of 2

First Previous Next FF Last Copy CSV Print Table

Figure 2-21. Statement of Votes Cast with Counter Groups report (default columns shown)

Access

From the **Links** menu of the [Statement of Votes Cast](#) report, choose **Counter Group Subtotals**.

Data

Data for each choice includes:

- **Choice**—Candidate/Option for which votes are reported.
- **Counter Group**—Name of the counter group.
- **Ballots with Contest**—Number of ballots with the contest. Opens the [Card Images](#) report.
- **Votes**—Number of votes for the choice. Opens the Votes section of the [Vote Visualization](#) report.
- **Overvoted with Vote for this Choice**—Number of ballots where the contest was overvoted and this choice was one of those marked. Opens the Overvotes section of the [Vote Visualization](#) report.
- **Undervoted without Vote for this Choice**—Number of ballots for which the choice's vote target was empty and the number of votes tabulated for all choices in that contest was fewer than allowed by the voting rule. Opens the Undervotes section of the [Vote Visualization](#) report.
- **Ballots with Votes for Others**—Ballots awarded to another choice.

Filters include: Precinct, Counter Group, Contest, ScanStation, Box, and Show Write-ins. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to search incrementally for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



When this report is filtered by precinct and the **Redact Small Vote Subtotals** option is selected on the Election Administration page, subtotals of fewer than 10 votes are hidden to ensure individual voter's confidentiality.



If the election has unresolved cards, a warning appears at the top of the report indicating that the vote totals are not yet complete.

Showing write-ins—Select the **Show Write-ins** check box to display the write-in candidate names and votes at the bottom of the Choice column for each contest that includes write-in choices. Candidate names appear preceded by *[Write-in]*.



When a contest includes multiple write-in choices, *Write-in* appears in the Choice column the equivalent number of times.



The ClearCount system removes all duplicate write-in candidate assignments (when a unique write-in candidate name is assigned to more than one write-in choice zone for the same contest on the same card). When a duplicate is removed, it appears on the Statement of Votes Cast report as *[Write-in]Duplicate*. The ClearCount system does *not* remove a write-in candidate assignment when it is a duplicate of a certified candidate listed on the ballot.



The report does not include candidate names (or the unassigned category) that have zero votes.

2.2.18 Statement of Votes Cast with Parties report

The Statement of Votes Cast with Parties report provides election subtotals by party. The report also includes contests that do not appear on the ballot (but exist in the BDF), as well as parties with no votes. In the case of cross-endorsed candidates where state law makes provisions for overvotes (overemphasis) involving a single candidate, the vote is adjudicated by the jurisdiction in the manner prescribed by the jurisdiction.



In a contest that is endorsed by multiple voter groups, if a candidate is not assigned to a partisan voter group, vote totals for that candidate are reported with the first party associated with the contest. For example, if a contest is endorsed by the Orange and Yellow parties, the votes for the nonpartisan candidates are attributed to the Orange party. If multiple party endorsements are required for a contest, the contest can be configured accordingly in the ballot definition file (BDF). See the *ClearDesign User Guide* for more information.



If the election has unresolved cards, a warning appears at the top of the report indicating that the vote totals are not yet complete.

Figure 2-22. Statement of Votes Cast with Parties report (default columns shown)



When straight-party voting is used and each cross-endorsed candidate appears only once on the ballot (with all parties that endorsed that candidate listed after the choice name), any ballots that were straight-party-voted via the ClearAccess ballot-marking station attribute choices to the undetermined party, rather than the endorsing party.

Access

From the [Statement of Votes Cast](#) report, choose **Links> Party Subtotals**.

Data

Data for each choice includes:

- **Choice**—Candidate/Option for which votes are reported.
- **Party**—Political party of the choice.
- **Votes**—Number of votes for that choice/party combination. Opens the Votes section of the [Vote Visualization](#) report.

Filters include: Precinct, Counter Group, Contest, ScanStation, Box, and Show Write-ins. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to search incrementally for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



When this report is filtered by precinct and the **Redact Small Vote Subtotals** option is selected on the Election Administration page, subtotals of fewer than 10 votes are hidden to ensure individual voter's confidentiality.

Showing write-ins—Select the **Show Write-ins** check box to display the write-in candidate names and votes at the bottom of the Choice column for each contest that includes write-in choices. Candidate names appear preceded by *[Write-in]*.



When a contest includes multiple write-in choices, *Write-in* appears in the Choice column the equivalent number of times.



The ClearCount system removes all duplicate write-in candidate assignments (when a unique write-in candidate name is assigned to more than one write-in choice zone for the same contest on the same card). When a duplicate is removed, it appears on the Statement of Votes Cast report as *[Write-in]Duplicate*. The ClearCount system does *not* remove a write-in candidate assignment when it is a duplicate of a certified candidate listed on the ballot.



The report does not include candidate names (or the unassigned category) that have zero votes.

2.2.19 Statement of Votes Cast with Precincts report

The Statement of Votes Cast with Precincts report provides election subtotals by precinct.

The screenshot shows the Clear Ballot web interface. At the top, it says 'Clear Ballot' and 'Reports for xx_clearcounty_2015g'. The user is logged in as 'Betty'. The main heading is 'Clear County, General Election, Dec 03 2015' followed by 'Statement of Votes Cast with Precincts'. There are filters for Precinct (All), Counter Group (All), Contest (All), and ScanStation (All). A 'Box' dropdown is set to 'All'. A 'Show Write-ins' checkbox is present, and a 'Change' button is next to it. A 'Filter table:' input field is on the right. Below these is a 'Show / hide columns' button. The table has columns: Choice, Precinct, Ballots With Contest, Votes, Overvoted With Vote for this Choice, Undervoted Without Vote for this Choice, and Links. The data is for 'Madison City County Judge (Single Precinct and Write-in)) (Vote for 1)'. It shows two rows for 'David Wilson': one for Precinct '01 (Greater Madison)' with 8 ballots and 4 votes, and another for '04 (Lakeside Suburb)' with 6 ballots and 1 vote. Both show 0 overvoted and 0 undervoted votes. At the bottom, there is a pagination control showing '5 entries per page' and '1 to 2 of 2'. Navigation buttons include 'First', 'Previous', 'Next', 'FF', and 'Last'. Action buttons include 'Copy', 'CSV', and 'Print Table'.

Choice	Precinct	Ballots With Contest	Votes	Overvoted With Vote for this Choice	Undervoted Without Vote for this Choice	Links
Madison City County Judge (Single Precinct and Write-in)) (Vote for 1)						
David Wilson	01 (Greater Madison)	8	4	0	0	
David Wilson	04 (Lakeside Suburb)	6	1	0	0	

Figure 2-23. Statement of Votes Cast with Precincts report (default columns shown)



If the election has unresolved cards, a warning appears at the top of the report indicating that the vote totals are not yet complete.



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.



If your election includes a judge initials contest (when judge initials are required on a ballot card), a contest called *Judges Initials* appears on the Statement of Votes Cast with Precincts report and its linked subtotal reports. See "Resolving judge initials cards" in the *ClearCount Election Administration Guide* for more information.

Access

- From the [Election reports](#) section of the Reports menu, choose **Statement of Votes Cast with Precincts**.
- From the [Statement of Votes Cast](#) report, choose **Links> Precinct Subtotals**.

Data

Data for each choice includes:

- **Choice**—Candidate/Option for which votes are reported.
- **Precinct**—Precinct name.
- **Ballots with Contest**—Number of ballots containing the contest. Opens the [Card Images](#) report.
- **Votes**—Number of votes for the choice. Opens the Votes section of the [Vote Visualization](#) report.
- **Overvoted with Vote for this Choice**—Number of ballots where the contest was overvoted and this choice was one of those marked. Opens the Overvotes section of the [Vote Visualization](#) report.
- **Undervoted without Vote for this Choice**—Number of ballots where the choice's vote target was empty and the number of votes tabulated for all choices in that contest was fewer than allowed by the voting rule. Opens the Undervotes section of the [Vote Visualization](#) report.
- **Ballots with Votes for Others**—Ballots awarded to another choice.
- **Links**—Provides a drop-down menu. Choices include:
 - **Counter Group Subtotals**—Opens the [Statement of Votes Cast with Precincts and Counter Groups](#) report.
 - **Box List**—Opens the [Card Inventory](#) report.

Filters include: Precinct, Counter Group, Contest, ScanStation, Box, and Show Write-ins. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



When this report is filtered by precinct and the **Redact Small Vote Subtotals** option is selected on the Election Administration page, subtotals of fewer than 10 votes are hidden to ensure individual voter's confidentiality.

Showing write-ins—Select the **Show Write-ins** check box to display the write-in candidate names and votes at the bottom of the Choice column for each contest that includes write-in choices. Candidate names appear preceded by *[Write-in]*.



When a contest includes multiple write-in choices, *Write-in* appears in the Choice column the equivalent number of times.



The ClearCount system removes all duplicate write-in candidate assignments (when a unique write-in candidate name is assigned to more than one write-in choice zone for the same contest on the same card). When a duplicate is removed, it appears on the Statement of Votes Cast report as *[Write-in]Duplicate*. The ClearCount system does *not* remove a write-in candidate assignment when it is a duplicate of a certified candidate listed on the ballot.



The report does not include candidate names (or the unassigned category) that have zero votes.

2.2.20 Statement of Votes Cast with Precincts and Counter Groups report

The Statement of Votes Cast with Precincts and Counter Groups report provides election subtotals by precinct and counter group, such as early voting (EV), absentee (AB), Election Day (ED).

Choice	Precinct	Counter Group	Ballots With Contest	Votes	Overvoted With Vote for this Choice	Undervoted Without Vote for this Choice	Links
Madison City County Judge (Single Precinct and Write-in)) (Vote for 1)							
David Wilson	01 (Greater Madison)	Absentee	2	1	0	0	
David Wilson	01 (Greater Madison)	Election Day	6	3	0	0	

Figure 2-24. Sample Statement of Votes Cast with Precincts and Counter Groups report



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.



If the election has unresolved cards, a warning appears at the top of the report indicating that the vote totals are not yet complete.

Access

From the [Statement of Votes Cast with Precincts](#) report, choose **Links> Counter Group Subtotals**.

Data

Data for each choice includes:

- **Choice**—Candidate/Option for which votes are reported.
- **Precinct**—Precinct name.
- **Counter Group**—Name of the counter group.
- **Ballots with Contest**—Number of ballots containing the contest. Opens the [Card Images](#) report.
- **Votes**—Number of votes for the choice. Opens the Votes section of the [Vote Visualization](#) report.
- **Overvoted with Vote for this Choice**—Number of ballots where the contest was overvoted and this choice was one of those marked. Opens the Overvotes section of the [Vote Visualization](#) report.
- **Undervoted without Vote for this Choice**—Number of ballots where the choice's vote target was empty and the number of votes tabulated for all choices in that contest was fewer than allowed by the voting rule. Opens the Undervotes section of the [Vote Visualization](#) report.
- **Ballots with Votes for Others**—Ballots awarded to another choice.
- **Links**—Provides a drop-down menu. Choices include: Box List—Opens the [Card Inventory](#) report.

Filters include: Precinct, Counter Group, Contest, ScanStation, Box, and Show Write-ins. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



When this report is filtered by precinct and the **Redact Small Vote Subtotals** option is selected on the Election Administration page, subtotals of fewer than 10 votes are hidden to ensure individual voter's confidentiality.

Showing write-ins—Select the **Show Write-ins** check box to display the write-in candidate names and votes at the bottom of the Choice column for each contest that includes write-in choices. Candidate names appear preceded by *[Write-in]*.



When a contest includes multiple write-in choices, *Write-in* appears in the Choice column the equivalent number of times.



The ClearCount system removes all duplicate write-in candidate assignments (when a unique write-in candidate name is assigned to more than one write-in choice zone for the same contest on the same card). When a duplicate is removed, it appears on the Statement of Votes Cast report as [Write-in]Duplicate. The ClearCount system does *not* remove a write-in candidate assignment when it is a duplicate of a certified candidate listed on the ballot.



The report does not include candidate names (or the unassigned category) that have zero votes.

2.2.21 Vote Centers report

The Vote Centers report provides a summary of vote centers that have had ClearCast election results merged into the ClearCount system.

Vote Center	# ClearCast Devices	# Merged Devices	# Remaining Devices
NW Suburbs Vote Center 1	1	0	1
Early Voting 1	1	1	0
Early Voting 2	1	0	1
Springfield Vote Center	1	1	0
NW Suburbs Vote Center 2	1	0	1

Figure 2-25. Vote Centers report

Access

From the [Other items](#) section of the Reports menu, choose **Vote Centers**.

Data

Data for each vote center includes:

- **Vote Center**—Name of the vote center that was set within the ClearDesign EMS.
- **# ClearCast Devices**—Number of ClearCast voting stations specified in the ClearDesign EMS for the vote center.
- **# Merged Devices**—Number of ClearCast voting stations that have had results merged for the vote center.

- **# Remaining Devices**—Number of ClearCast voting stations that have not had results merged for the vote center.

Use the Filter table option to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display. Select the **Show only vote centers with missing results** option to filter the vote centers accordingly so that you can quickly determine which vote centers still have outstanding results. The "ClearCast Merged Results report" on page 26 provides additional information about the status of the ClearCast voting stations at each vote center.

2.2.22 Vote Visualization report

The Vote Visualization report uses high-resolution images of scanned ballots to allow click-through examination of every vote on every ballot.

Each oval on the Vote Visualization report links to the full card image, giving election officials greater transparency and control when reviewing an election and determining voter intent.

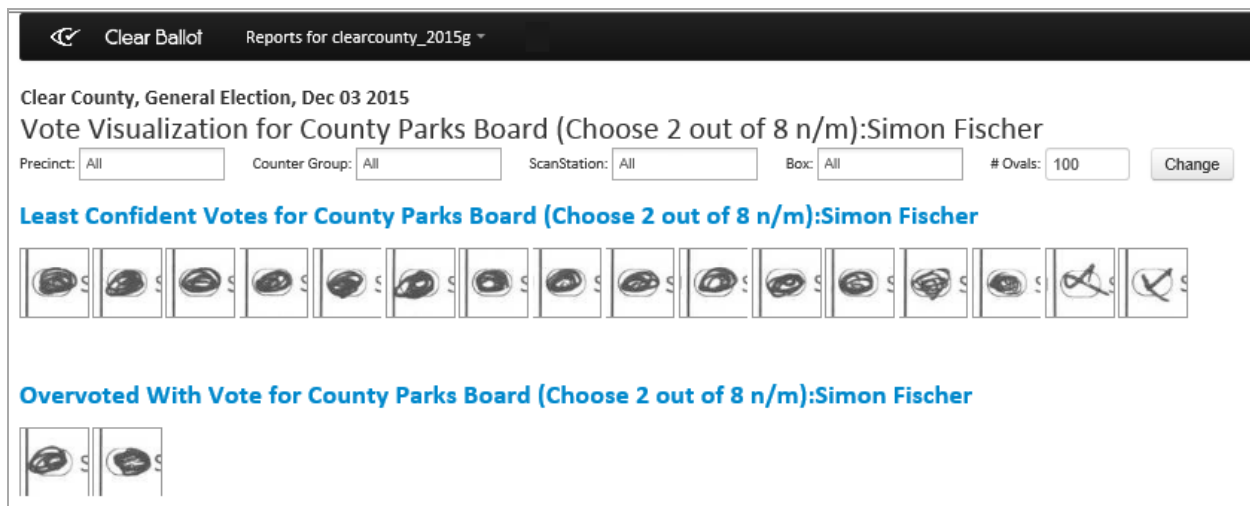


Figure 2-26. Vote Visualization report

Access

From all vote total links in any report that shows vote results for a specific choice, including all of the Statement of Votes Cast reports. Clicking a summarized vote total (Votes, Overvotes, Undervotes and so forth) for a choice in a report opens the Vote Visualization report in a new tab showing the ovals for that choice in that contest.

Data

The title states the specific contest/choice pair for which you are viewing results. The following sections can appear on the Vote Visualization report:

- [Least Confident Votes](#) for contest: choice
- [Overvoted with Vote](#) for contest: choice

- [Least Confident Nonvotes in Undervoted Ballots without Vote](#) for *contest: choice*
- [Least Confident Nonvotes in Ballots without Vote](#) for *contest: choice*
- [Least Confident Cross-Endorsed “Double Votes”](#) for *contest: choice*

Filters include: Precinct, Counter Group, Contest, ScanStation, Box, and # Ovals. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings.

Hovering over an oval displays the contest section of the card for that oval. Clicking an oval opens the [Visually Annotated Card page](#) for the related ballot.

Clear Ballot Reports for ClearCounty2015g

Clear County General Election, Dec 03 2015

Vote Visualization for County Parks Board (Choose 2 out of 8 n/m):Simon Fischer

Precinct: All Counter Group: All ScanStation: All Box: All # Ovals: 100

Least Confident Votes for County Parks Board (Choose 2 out of 8 n/m):Simon Fischer

ED-001+10003.jpg

Choice County Parks Board (Choose 2 out of 8 n/m):Simon Fischer

Vote For 2

Party Beige Party

Precinct 01-Center-Split 1

Counter Group Election Day (ED)

OvalDensity 42.97

ZoneDensity 5.08

Manually Resolved False

Overridden Crossover

Oval Count 5th-most confident vote
11th-least confident vote

Clear County Parks Board

Vote for two

☐ Joseph MacDonald Cyan Party

☒ Simon Fischer Beige Party

☐ Rebecca Hernandez Beige Party

☐ Leonard Cowen Magenta Party

☐ Christine Hall Magenta Party

☐ Adam Lewis Teal Party

☒ Johanna Muller Teal Party

☐ Adam Baker Independent

☐ Write-in

☐ Write-in

Sort for un-captured intent

Figure 2-27. Contest section of the card

Implicit and explicit choice modifications include:

- **Manually Resolved**—when a choice has been modified due to manual adjudication by election officials
- **Implied Straight Party**—when a choice is considered *voted* even though it was not explicitly selected by the voter; occurs when a contest is controlled by a straight-party selection contest
- **Overridden Crossover**—when a choice that was explicitly selected by the voter is overridden because the voter marked contests in multiple parties; occurs in a primary election when contests for multiple parties are on the same ballot
- **Overridden Straight Party**—when a choice was explicitly selected by the voter, but is not *voted* because the contest containing the choice was controlled by a straight-party contest, which caused the explicitly selected choice to be overridden

2.2.22.1 Vote Visualization: Least confident votes

The Least Confident Votes section of the [Vote Visualization report](#) shows ovals that were counted as votes for the choice that are the least likely of those votes to be valid votes.

- The votes shown are those that are least likely to be valid votes out of all the votes for that contest/choice pair.
- The votes are shown in order from the most confident vote on top (the highest oval density) to the least confident vote at the bottom (the lowest oval density)
- Increasing the number of ovals displayed (by using the # Ovals field) adds more ovals to the top of the list. Note that the ovals that are added when you increase the # Ovals shown have higher oval density and, therefore, are more likely to be valid votes than those already displayed.

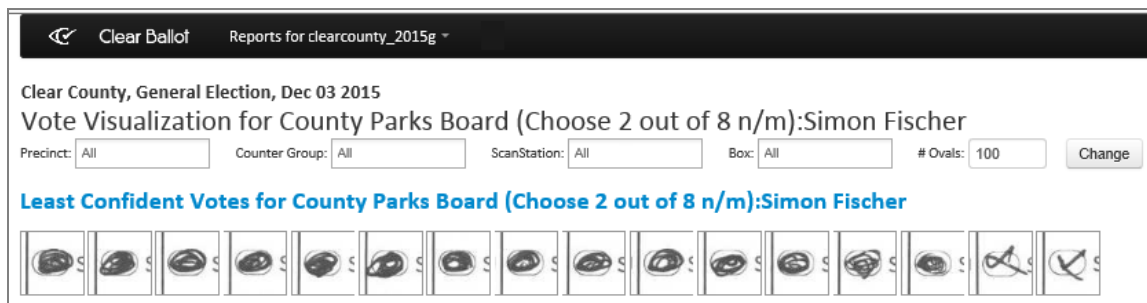


Figure 2-28. Vote Visualization report: Least confident votes section

2.2.22.2 Vote Visualization: Overvoted with vote

The Overvoted with Vote for *contest: choice* section of the [Vote Visualization report](#) shows all ovals that were marked for a choice where the vote rule for the contest was exceeded and that choice was one of the marked ovals that contributed to the overvote. For the given choice, the ovals in this section are sorted by card ID, then by contest and oval density. This information is useful when searching for a specific oval on a specific card for the choice.

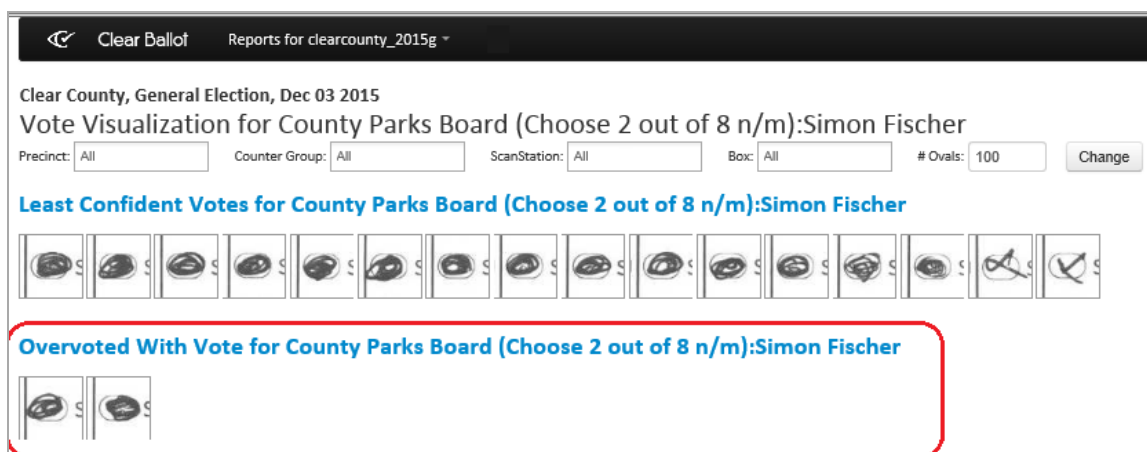


Figure 2-29. Vote Visualization report: Overvoted with vote section

2.2.22.3 Vote Visualization: Least confident nonvotes in undervoted ballots without vote

In cases where the vote rule for the contest was not met (the contest was undervoted), this section of the [Vote Visualization report](#) shows those ovals for the choice that were counted as nonvotes, but which are the most likely to be valid votes.

Overvoted With Vote for County Parks Board (Choose 2 out of 8 n/m):Simon Fischer

Least Confident Non-Votes in Undervoted Ballots without Vote for County Parks Board (Choose 2 out of 8 n/m):Simon Fischer

Sort for un-captured intent

<input type="radio"/> Simon Fischer	Beige Party	<input type="radio"/> Simon Fischer	Beige Party
<input type="radio"/> Simon Fischer	Beige Party	<input type="radio"/> Simon Fischer	Beige Party
<input type="radio"/> Simon Fischer	Beige Party		

Figure 2-30. Vote Visualization report: Least confident nonvotes in undervoted ballots without vote section

- Ovals in this section are displayed with an expanded choice zone to present a more data-rich picture of voter intent.
- Ovals in this section are shown from highest oval/zone density to lowest oval/zone density.
 - If the choice for which ovals are being displayed is a named candidate or option, the sort order is based on oval density.
 - If the choice for which ovals are being displayed is a write-in option, the sort order is based on zone density.
 - The sort button allows you to easily change the method used to sort the ovals. Just click it to see the opposite method.
 - Sort for uncaptured intent sorts by zone density.
 - Sort for marks in ovals sorts by oval density.

2.2.22.4 Vote Visualization: Least confident nonvotes in ballots without vote

The Least Confident Nonvotes in Ballots without Votes for *contest: choice* section of the [Vote Visualization report](#) shows those ovals that are least likely to be nonvotes (those most likely to actually be valid votes) on any card where a vote is not recorded for the choice, but the vote rule for the contest has been met by a vote for a different choice or choices.

This allows election officials to easily view those ovals where a vote is not recorded for the choice, but the oval or zone density is at a higher level and, therefore, might indicate that there is a mark that was intended to be a vote.

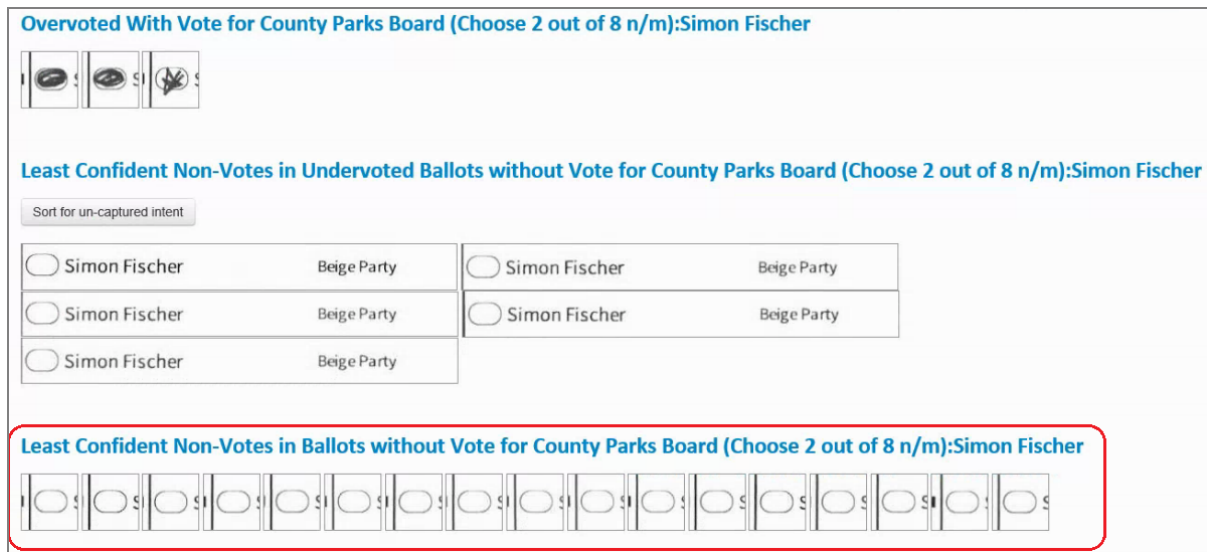


Figure 2-31. Vote Visualization report: Least confident nonvotes in ballots without vote section

The ovals in this section are sorted from highest oval density (most likely to be a valid vote) to lowest oval density (most likely to be a valid nonvote). This gives visual priority to those ovals that election officials most need to examine.

2.2.22.5 Vote Visualization: Least confident cross-endorsed “double votes”

This section of the [Vote Visualization report](#) only appears when there is at least one contest where a cross-endorsed choice (which has multiple ovals) has been voted for more than once on the same contest. When a choice is cross-endorsed, that choice has multiple ovals (one for each party) in the contest on the ballot. If a voter fills out more than one of those ovals (an overvote or over-emphasis of that one choice), only one oval can be counted for the vote.

Where state law makes provisions for overvotes (over-emphasis) of a single choice, the vote is then adjudicated in the manner prescribed by the state. The oval that is determined to be “the vote” and the party that thereby gets credit for that vote is determined by state law in such cases. Any and all ovals that were filled in, but were not counted in the vote total (those that did not get “the vote”) because they fell lower in the hierarchy as determined by state law, are placed into the Least Confident Cross-Endorsed Double Votes section so that election officials have a full picture of how the votes were adjudicated and allocated, and can review those decisions.

These ovals are sorted from least confident (lowest oval density) to most confident (highest oval density). Increasing the number of ovals displayed (by using the # Ovals field) adds more (more confident) ovals to the list. The ovals that are added when you increase the # Ovals shown have higher oval density.

2.2.23 Write-in Candidates by Contest report

The Write-in Candidates by Contest report provides a list of the candidates associated with a contest as write-in options. It also shows the number of assignments for each candidate and the number of voted assignments.

Clear Ballot Reports for Clear County_2016g Betty

General Election, Nov 8, 2016, Clear County, US

Write-in Candidates by Contest Report

Filter table:

Contest: Governor X Change

Add Candidate

Copy CSV Print Table Show / hide columns

Candidates	All Assignments	Voted Assignments	Actions
Governor (Vote for 1)			
Samuel Brussels	5	3	
Henessy Walkerton	2	2	
Invalid	1	1	

10 entries per page 1 to 3 of 3

First Previous Next FF Last

Figure 2-32. Write-in Candidates by Contests report (default columns shown)

Access

From the [Contests with Write-ins report](#), click a link in the Contest column or the # Write-in Names column.

Data

Data for each contest includes:

- **Candidates**—Names of write-in candidates associated with the contest.
- **All Assignments**—Number of write-in choice zones to which the candidate has been assigned.
- **Voted Assignments**—Number of assignments that are valid votes.
- **Actions**—Provides a drop-down menu of options for the candidate entry, including the ability to rename or delete it.

Filters include: Contest (Contest filters that have been selected for the [Contests with Write-ins report](#) carry over to this report. Select filters from the filter fields and click **Change** to filter data. Use the Filter table option with or without the filter fields to perform incremental searches for alphanumeric strings. Click the **Show/Hide Columns** button to select data to display.



The ability to add, merge, rename or delete a candidate name is available only to users whose access level is modify or above.

Adding a Candidate

Click the **Add Candidate** button to open the Add Write-in Candidate dialog, select the desired contest from the drop-down list, enter the candidate's name (up to 128 characters), and click **Save**. The candidate appears in the Candidates column for the selected contest.

Renaming a Candidate

To rename a candidate, click the **Action** button for the desired candidate and select the **Rename** option from the drop-down menu. Edit the name and click **Save**.

Merging Candidate Names

If you have multiple entries for a candidate name due to misspellings, you can merge the incorrect entries into the correct entry.

To merge candidate entries:

1. Click the **Action** button for the incorrect candidate and select the **Rename** option from the drop-down menu.
2. Enter the correct name in the Name field, select the **Merge if duplicate** checkbox and click **Save**.
3. The ClearCount system merges the write-in assignments for both entries.

2.3 Sharing web reports

All of the ClearCount web reports can be shared with the stakeholders in an election

To share data:

1. [Log in to an election administration station as a report user.](#)
2. From the Election column of the [Election Index](#), select an election. The [Dashboard](#) appears.
3. From the Dashboard or the Reports menu, select the report you want to share. The report opens in a new tab.
4. (Optional) To copy the page to the clipboard, click **Copy**. The copied text can be pasted into another application, such as Notepad.
5. (Optional) To save the data in comma-separated values (CSV) format:
 - a. Click **CSV**. The Select Location dialog appears.
 - b. Navigate to a location to save the file, enter the name of the file and click **Save**. The CSV file can be opened in Notepad or Microsoft Excel.
6. (Optional) To print the page:
 - a. Click **Print Table**. The print view of the report appears in the browser window.
 - b. Use your browser's print options (Page setup, Print preview, Print) to print the report, and then press the Esc key to return to the main report page.

Chapter 3. PDF reports

You can create customized election-specific reports as Adobe Acrobat PDF files. You can filter data, select columns to display, and sort the data to meet your reporting needs, and then print or save the file.

3.1 Generating PDF reports

To create a PDF report:

1. [Log in to an election administration station](#) as a report user. The [Election Index](#) appears.
2. From the Election column, select the election you want to view. The [Dashboard](#) appears.
3. Click the **Reports for ElectionName** drop-down menu on the Dashboard's title bar and select the **Generate PDF Report** option. The [Generate PDF Report page](#) appears.
4. Modify the Structure parameters, the Labels parameters, and the Filters parameters as desired.

 Filtering selections can affect saved bookmarks.
5. (Optional) Click **Create Bookmark for this Report**. The ClearCount system saves the current report settings in a user- and browser-specific bookmark named Generate Report - *ElectionName*.

 For ease of reuse and to prevent overwriting, rename the bookmark file.
6. Click **Start Report**. The [Server Background Jobs](#) page replaces the Generate PDF Report page. The report is topmost in the table and its job type (in the Job column) is *pdf_report*.
7. When the Status column says *Completed* and the filename appears in the Final Result column, click the filename. The report replaces the [Server Background Jobs](#) page.

 The report file resides on the ScanServer until it is restarted. Print the file or save it to removable media, such as a USB drive.
8. Using browser commands, do the following:
 - (Optional) Click **Print** to print the report.
 - (Optional) Click **Save** to copy the PDF file to the local Downloads folder.

 The Bookmarks pane may not be visible when the saved PDF file is first opened. The sequence of actions that restores the Bookmarks pane depends upon the choice of browser and the version of Adobe Reader.
9. (Optional) Delete the job from the [Server Background Jobs](#) page. It is automatically removed when the ScanServer is restarted.

3.2 Generate PDF Report page

The Generate PDF Report page allows you to create customized reports that you can save as PDF files.

Clear Ballot Reports for Clear County_2016g Betty

General Election, Nov 8, 2016, Clear County, US

Generate PDF Report

Structure

Report Type
Votes by Geography, Contests by Counter Group

Type of Geography
Precincts

Level of Detail
Grand Total only

- ☐ Sort choices by their order (not Vote total)
- ☐ Hide Counter Group subtotals
- ☐ Hide Overvote and Undervote counts
- ☐ Hide Turnout
- ☐ Hide Precincts Reported
- ☐ Hide Vote Percentages
- ☐ Redact Small Vote Subtotals
- ☐ Hide Warnings about un-counted ballots
- ☐ Show cross-endorsed Party Vote Subtotals
- ☐ Show empty Vote Comparison columns

Page Size
Letter Portrait (8.5 x 11)

Page Width: 8.5

Page Height: 11

Create Bookmark for this Report

Start Report

Labels

Output PDF name (optional)
Output PDF file name

Report Title
Statement of Votes Cast by Geography

Election Name
Example: Lincoln County General Election, Nov 4, 2014

Report Comment (optional)
Example: Unofficial Results

☐ Hide Autogenerated Date and Time

Date Comment (optional)
Example: Next Report at 7:30pm

Page Footer (optional)
Page Footer

Filters

Precinct: All

District: All

Counter Group: All

Contest: All

ScanStation: All

Box: All

Figure 3-1. Generate PDF Report page

This page provides the following categories of setup options:

- **Structure**—Controls overall scope and visibility of subtotals.
- **Labels**—Control custom text in the headers and footers appearing on all pages of a report.
- **Filters**—Include or exclude specific precincts, districts, counter groups, contests, ScanStations, and boxes.





A read access level or above is required to generate a PDF report.

Access

Select **Election Index> Dashboard> Reports> Election Reports> Generate PDF Report.**

Controls

Name	Description
Structure	
Report Type	<p>Basic scope of the report. One of:</p> <ul style="list-style-type: none"> • Votes by Geography, Contests by Counter Group—Generates a report whose default title is Statement of Votes Cast by Geography. • Votes by Contests, Geography by Choice—Generates a report whose default title is Statement of Votes Cast by Contests, Geography by Choice. • Ballots by Geography—Generates a report whose default title is Statement of Ballots Cast. • Votes by Box, Geography—Generates a report whose default title is Statement of Votes Cast by Box, Geography
Type of Geography	<p>Geographical unit of the report. One of:</p> <ul style="list-style-type: none"> • Precincts—Includes all items selected through Filters> Precinct. • Districts—Includes all items selected through Filters> District.
Level of Detail	<p>Granularity of the report. One of:</p> <ul style="list-style-type: none"> • Grand Total Only—The default; provides aggregate totals without geographic totals. • Detail and Grand Total—Provides aggregate totals and geographic totals. • Detail Only—Provides geographic totals without aggregate totals.
Report Type Options	The list of options that appear is determined by the Report Type selected.
Sort Choices by their Order (not Vote total)	If checked, choices are listed in preferred choice order. The default is to show all choices ordered from largest to smallest number of votes.
Hide Counter Group Subtotals	If checked, counter group subtotals are hidden. The default is to show data for all items selected through Filters> Counter Group.
Hide Overvote and Undervote Counts	If checked, overvote and undervote counts are hidden. The default is to show all overvote and undervote data.

Name	Description
Hide Turnout	If checked, turnout is hidden. The default is to show turnout data in the main header and subheaders, as appropriate for the report type.
Hide Precincts Reported	If checked, hides <i>x precincts of y total reporting</i> in the main header. The default is to show the number of precincts reporting.
Hide Vote Percentages	If checked, vote percentages are hidden. The default is to show all vote percentage data.
Redact Small Vote Subtotals	<p>If checked, redaction of <i>precinct-level</i> totals occurs when fewer than 10 votes are cast for a candidate or choice. The value shown is (<10). If the Redact Small Vote Subtotals setting for the election on the Election Administration page is:</p> <ul style="list-style-type: none"> • Enabled—The box is checked by default. • Disabled—The box is <i>not</i> checked by default. <p> Grand totals for precincts are <i>not</i> redacted. The Statement of Ballots Cast PDF report is also not affected by this option.</p>
Hide warnings about uncounted ballots	<p>If checked, suppresses the warning that appears in the report header about ballots that have not been counted yet.</p> <p>Example: Total Ballots Cast: 233 (includes some ballots not yet counted)</p>
Show cross-endorsed party vote subtotals	<p>If checked, shows vote subtotals by party for candidates who are endorsed by more than one party.</p> <p> When this option is selected, the choice order of the report is set to preferred choice order rather than vote total order. This is the same as selecting the Sort choices by their order (not vote total) option, although that option's checkbox does not appear selected.</p>
Show empty Vote Comparison columns	If checked, provides blank lines for transcribing comparison vote totals.
Page Format Options	
Page Size	Sets the overall dimensions and the orientation of the PDF file. Settings for standard outputs are provided, as well as a Custom setting.
Page Width	Overall page width in inches. Changing the default value forces the Page Size setting to Custom. Maximum width is 80 inches.
Page Height	Overall page height in inches. Changing the default value forces the Page Size setting to Custom. Maximum height is 68 inches.

Name	Description
Labels	
Output PDF Name (optional)	User-defined name of the PDF file generated on the ScanServer. The default is <i>ReportTitle_for_ElectionName</i> . (This local copy of the PDF file defaults to the same name.)
Report Title	User-defined title that appears on the first line at the top of every page of the report. The default name is determined by the option selected for Report Type.
Election Name	User-defined subtitle that appears on the second line at the top of every page of the report. The default name is a variation of the Dashboard title; the jurisdiction name is the leftmost element.
Report Comment (optional)	User-defined fixed-text comment that appears beneath the title and subtitle at the top of every page of the report. The default is no comment.
Hide Autogenerated Date and Time	The header on each PDF report page includes the date and time that the PDF report was created. Selecting this option removes the date and time from the report.
Date Comment (optional)	User-defined fixed-text comment that appears beneath the Page x of y counter and timestamp in the top right corner of every page of the report. The default is no comment.
Page Footer (optional)	User-defined fixed-text comment that appears at the bottom of every page of the report. Multiple lines are allowed. The default is no footer.
Filters	
Precinct	Extracts data for all precincts or for user-selected precincts.
District	Extracts data for all districts or for user-selected districts.
Counter Group	Extracts data for all counter groups or for user-selected counter groups.
Contest	Extracts data for all contests or for user-selected contests.
ScanStation	Extracts data for all ScanStations or for user-selected ScanStations.
Box	Extracts data for all box IDs or for user-selected box IDs.
Buttons	
Create Bookmark for this Report	Saves the report setup as a reusable user- and browser-specific bookmark under the generic name Generate Report - <i>ElectionName</i> . (The bookmark file is separate from the election database.) Report parameters are also recorded in the web activity log, which is described in the <i>ClearCount Election Administration Guide</i> .
Start Report	Launches the report as a job accessed through the Server Background Jobs page.

3.3 Statement of Votes Cast by Geography PDF report

The Statement of Votes Cast by Geography PDF report presents data for votable choices in the contests of an election, by the geography of precinct or district. The example below presents data by precinct.



This report can only be generated when the Display Vote Totals option is enabled on the Election Administration page. Otherwise, you receive a message indicating that the display of vote totals is not allowed. See "Displaying vote totals" in the *ClearCount Election Administration Guide* for more information.

Statement of Votes Cast by Geography					
Clear County, General Election, Dec 03 2015					
All Precincts, All Districts, All Counter Groups, All Scan Stations, All Contests					
Total Ballots Cast: 27, Registered Voters: 222, Overall Turnout: 12.16%					
5 precincts reported out of 5 total					
Choice	Votes	Vote %	AB	ED	EV
All Precincts					
Madison City County Judge (Single Precinct and Write-in)) (Vote for 1)					
14 ballots (1 over voted ballots, 1 overvotes, 107 registered voters, turnout 13.08%)					
David Wilson	5	38.46%	1	4	0
Diana Hernandez	3	23.08%	0	3	0
Juan Garcia	2	15.38%	1	1	0
Tony Cho	1	7.69%	0	1	0
Erica Roberts	1	7.69%	0	1	0
Natalie Ward	1	7.69%	1	0	0
Write-in	0	0.00%	0	0	0
Total	13	100.00%	3	10	0
Overvotes	1				
Undervotes	0				

Figure 3-2. Sample Statement of Votes Cast by Geography PDF report



In a contest that is endorsed by multiple voter groups, if a candidate is not assigned to a partisan voter group, vote totals for that candidate are reported with the first party associated with the contest. For example, if a contest is endorsed by the Orange and Yellow parties, the votes for the nonpartisan candidates are attributed to the Orange party. If multiple party endorsements are required for a contest, the contest can be configured accordingly in the BDF. See the *ClearDesign User Guide* for more information.



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.

Data

- **Total ballots cast**—The number of ballots cast when at least the first card of a ballot is voted.
- **Ballots**—The number of ballots cast in the contest.

- **Overvoted ballots**—The number of ballots that contain overvotes for the contest.
- **Overvotes**—The value of the vote rule (maximum number of votes) for the contest when that maximum is exceeded. Otherwise, the value is 0. This value conforms to the EAC definition.
 - Example A: If a contest has a maximum vote of one and three ovals are filled in, the overvote value is 1.
 - Example B: If a contest has a maximum vote of two and three ovals are filled in, the overvotes value is 2.
- **Undervotes**—The number of undervotes for the contest (maximum number of votes minus the number of votes). This value conforms to the EAC definition.

A warning message appears in the Total Ballots Cast section of the header when there are still uncounted cards. The message can be suppressed by selecting the **Hide warnings about uncounted ballots** option on the Generate PDF Report page.

Statement of Votes Cast by Geography		Page: 1 of 25
Clear County, General Election, November 7, 2017		2017-11-07
All Precincts, All Districts, All Counter Groups, All Scan Stations, All Contests		11:10:09
Total Ballots Cast: 233 (includes some ballots not yet counted)		Registered Voters: 1740, Overall
Turnout: 13.39%		
12 precincts reported out of 15 total		

3.4 Statement of Votes Cast by Contests, Geography by Choice PDF report

The Statement of Votes Cast by Contests, Geography by Choice PDF report presents data for each counter group that votes in a contest, by the geography of precinct or district. The example below presents data by precinct.

Statement of Votes Cast by Contests, Geography by Choice										Page: 1 of 21	
Clear County, General Election, Dec 03 2015										2017-03-30	
All Precincts, All Districts, All Counter Groups, All Scan Stations, All Contests										12:26:58	
Total Ballots Cast: 27, Registered Voters: 222, Overall Turnout: 12.16%											
5 precincts reported out of 5 total											
Madison City County Judge (Single Precinct and Write-in)) (Vote for 1)											
Counter Group	Ballots Cast	Reg. Voters	Total Votes	Juan Garcia		David Wilson		Diana Hernandez		Tony Cho	
All Precincts											
Absentee	3	107	3	1	33.33%	1	33.33%	0	0.00%	0	0.00%
Election Day	11	107	10	1	10.00%	4	40.00%	3	30.00%	1	10.00%
Early Voting	0	107	0	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Total	14	107	13	2	15.38%	5	38.46%	3	23.08%	1	7.69%

Figure 3-3. Sample Statement of Votes Cast by Contests, Geography by Choice PDF report



This report can only be generated when the Display Vote Totals option is selected on the Election Administration page. Otherwise, you receive a message indicating that the display of vote totals is not allowed. See "Displaying vote totals" in the *ClearCount Election Administration Guide* for more information.



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.

Data

- **Total ballots cast**—The number of ballots cast when at least the first card of a ballot is voted.
- **Ballots cast**—The number of ballots cast in the counter group.

3.5 Statement of Votes Cast by Box, Geography PDF report

The Statement of Votes Cast by Box, Geography PDF report presents data by box for votable choices in the contests of the election, by the geography of precinct or district. The example below presents data by precinct.

Statement of Votes Cast by Box, Geography			
Clear County, General Election, November 7, 2017			
All Precincts, All Districts, All Counter Groups, All ScanStations, All Contests, AB-701, AB-801, AB-901			
Total Ballots Cast: 26, Registered Voters: 1740, Overall Turnout: 1.49%			
12 precincts reported out of 15 total			
Box: AB-701		Card Count: 6	
Choice	Votes	Vote %	Comparison
All Precincts			
Contest 1 (Candidate) (Vote for 1)			
6 ballots (3 over voted ballots, 3 overvotes, 0 undervotes), 1490 registered voters, turnout 0.40%			
Candidate 1	1	16.67%	
Party A	0		
Party D	0		
Party E	1		
Candidate 2	2	33.33%	
Party B	2		
Party C	0		
Candidate 3	2	33.33%	
Candidate 4	0	0.00%	
Write-in	1	16.67%	
Total	6	100.00%	
Overvotes	3		
Undervotes	0		

Figure 3-4. Sample Statement of Votes Cast by Box, Geography PDF report (with the "Show cross-endorsed Party Vote Subtotals" and the "Show empty Vote Comparison columns" options selected)



This report can only be generated when the Display Vote Totals option is selected on the Election Administration page. Otherwise, you receive a message indicating that the display of vote totals is not allowed. See "Displaying vote totals" in the *ClearCount Election Administration Guide* for more information.



In a contest that is endorsed by multiple voter groups, if a candidate is not assigned to a partisan voter group, vote totals for that candidate are reported with the first party associated with the contest. For example, if a contest is endorsed by the Orange and Yellow parties, the votes for the nonpartisan candidates are attributed to the Orange party. If multiple party endorsements are required for a contest, the contest can be configured accordingly in the BDF. See the *ClearDesign User Guide* for more information.



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.

Data

- **Total ballots cast**—The number of ballots cast in the election when at least the first card of a ballot is voted.
- **Ballots**—The number of ballots cast in the contest.
- **Overvoted ballots**—The number of ballots that contain overvotes for the contest.
- **Overvotes**—The value of the vote rule (maximum number of votes) for the contest when that maximum is exceeded. Otherwise, the value is 0. This value conforms to the EAC definition.
 - Example A: If a contest has a maximum vote of one and three ovals are filled in, the overvote value is 1.
 - Example B: If a contest has a maximum vote of two and three ovals are filled in, the overvotes value is 2.
- **Undervotes**—The number of undervotes for the contest (maximum number of votes minus the number of votes). This value conforms to the EAC definition.

A warning message appears in the Total Ballots Cast section of the header when there are still uncounted cards. The message can be suppressed by selecting the **Hide warnings about uncounted ballots** option on the Generate PDF Report page.

Statement of Votes Cast by Geography		Page: 1 of 25
Clear County, General Election, November 7, 2017		2017-11-07
All Precincts. All Districts. All Counter Groups. All Scan Stations, All Contests		11:10:09
Total Ballots Cast: 233 (includes some ballots not yet counted)		Registered Voters: 1740, Overall
Turnout: 13.39%		
12 precincts reported out of 15 total		

3.6 Statement of Ballots Cast PDF report

The Statement of Ballots Cast PDF report presents participation data, by the geography of precinct or district. The example below presents data by precinct. This report does *not* include vote totals for choices.

Statement of Ballots Cast				Page: 1 of 1
Clear County, General Election, Dec 03 2015				2017-03-30
All Precincts, All Districts, All Counter Groups, All Scan Stations, All Contests				12:29:54
Total Ballots Cast: 27, Registered Voters: 222, Overall Turnout: 12.16%				
5 precincts reported out of 5 total				
Counter Group	Ballots Cast	Reg. Voters	Turnout Pct.	
All Precincts				
Absentee	3	222	1.35%	
Election Day	24	222	10.81%	
Early Voting	0	222	0.00%	
Total	27	222	12.16%	

Figure 3-5. Sample Statement of Ballots Cast PDF report



If your election uses consolidated precincts, all ballots and cards associated with the consolidated precinct are reported together, and are separate from the ballots and cards of the individual precincts. Selecting one of the individual precincts as a Precinct filter option does not include the consolidated precinct in the results. The consolidated precinct is a separate entity from the individual precincts within it.

Data

- **Total ballots cast**—The number of ballots cast when at least the first card of a ballot is voted.
- **Ballots**—The number of ballots cast in the counter group.

Chapter 4. Exported reports

The ClearCount system offers several reports that are available for export.

- [Cast Vote Record](#)
- [Write-in Contests Results](#)
- [Custom XSLT file](#)
- [XML Results files](#)

4.1 Cast Vote Record report

The exported Cast Vote Record (CVR) report for an election comprises the following set of comma-separated values (CSV) files with the indicated data:

- ***Election_Name.cvr.csv***—contains the record of which choices were selected on each card and includes RowNumber, BoxID, BoxPosition, BallotID, PrecinctID, BallotStyleID, PrecinctStyleName, ScanComputerName, Status, Remade, and Choice_X_X:<ContestName>:<VoteRule>:<ChoiceName>:<PartyName> values
 - RowNumber—a unique sequential identifier for each row in the CVR
 - BoxID—a unique identifier for the box in the ClearCount election that contains the tabulated card
 - BoxPosition—a unique sequential identifier for each box in the CVR
 - BallotID—the unique identifier for each card, consisting of the box ID and the card's front image sequence number
 - PrecinctID—a unique number that identifies a single precinct
 - BallotStyleID—a unique number that identifies a card style
 - PrecinctStyleName—a name corresponding to (PrecinctID, BallotStyleID)
 - ScanComputerName—the ScanStation computer name
 - Status—indicates the current tabulation status of the card; possible values include:
 - 0 = adjudicated by algorithm
 - -1 = if Remade=0, unreadable; if Remade=1, adjudicated by human
 - +1 = not votable due to obstruction
 - +2 and greater = not votable due to overlapping images of N cards where N is the value
 - Remade—records whether the Card Resolutions tool was used to adjudicate the card; possible values include:
 - 0 = card was not resolved by the Card Resolutions tool (record is unmodified from the original scoring process)

- 1 = card was resolved by the Card Resolutions tool
 - Choice—contains one column for each possible choice. The header for each column is named Choice_X_X:<ContestName>:<VoteRule>:<ChoiceName>:<PartyName>, where X_X equals <ChoiceID>_<PartyID> and <ContestName>, <VoteRule>, <ChoiceName> and <PartyName> originate in the BDF and can be seen in the other applicable CVR CSV files. The values for these columns are 1 (vote) or 0 (nonvote).
- **Election_Name.choices.csv**—table that provides names for choice IDs; includes ChoiceID, ContestID and ChoiceName values
- **Election_Name.contests.csv**—table that provides names for contest IDs; includes ContestID and ContestName values
- **Election_Name.parties.csv**—table that provides names for party IDs; includes PartyID and PartyName values
- **Election_Name.precincts.csv**—table that provides names for precinct IDs and card style IDs; includes PrecinctID, PrecinctName and BallotStyleID values

4.1.1 Exporting a cast vote record

The ClearCount system provides a zipped file that contains the cast vote record (CVR) file set as comma-separated values (CSV) files.

To export a cast vote record:

1. Log in to an election administration station as an administrator.
2. From the drop-down list next to your name in the upper right corner, select **Election Administration**. The Election Administration page appears.
3. Locate the election with the CVR you want to export, click its **Actions** button and select **Export Cast Vote Record** from the drop-down list that appears. The [Server Background Jobs](#) page appears in a new browser tab. The launched report is topmost in the table and its job type (in the Job column) is *cvr_export*.
4. Wait until the Status column says *Completed* and a file named <Election_Name>.cvr.zip appears in the Final Result column, and then click the filename to download and save it. You can then open the file set using a third-party application, such as Notepad or Microsoft Excel.
5. (Optional) Delete the job from the [Server Background Jobs](#) page by clicking the button in the Actions column and selecting **Delete Job**.



The file resides on the ScanServer computer until it is deleted, or until the ScanServer computer is restarted.

4.2 Write-in Contests Results report

The exported Write-in Contests Results report for an election comprises the following set of comma-separated values (CSV) files with the indicated data:

- **Party Endorsement**—The political party designation (always *nonpartisan* for write-in votes)
- **Precinct Name**—The name of the precinct
- **Precinct ExportID**—(Optional) Unique identifier for the precinct when exported
- **Precinct ImportID**—(Optional) Unique identifier for the precinct when imported
- **Contest Name**—Descriptive name of the contest (this is what appears in reports)
- **Contest Short Name**—An abbreviated name for the contest
- **Contest ID**—Unique identifier for the contest
- **Contest ExportID**—(Optional) Unique identifier for the contest when exported
- **Contest ImportID**—(Optional) Unique identifier for the contest when imported
- **Write-in Name**—The name of the write-in candidate
- **Votes**—The number of votes received by the write-in candidate



The ClearCount system removes all duplicate write-in candidate assignments (when a unique write-in candidate name is assigned to more than one write-in choice zone for the same contest on the same card).



The Write-in Contests Results report does not include candidate names (or the unassigned category) that have zero votes.

4.2.1 Exporting write-ins results

The ClearCount system provides the write-in results for an election as a CSV file.

To export a write-in results:

1. Log in to an election administration station as an administrator.
2. From the drop-down list next to your name in the upper right corner, select **Election Administration**. The Election Administration page appears.
3. Locate the election you want to export write-in results for, click its **Actions** button and select **Export Write-in Contests Results** from the drop-down list that appears. The [Server Background Jobs](#) page appears in a new browser tab. The launched report is topmost in the table and its job type (in the Job column) is *writein_export*.
4. Wait until the Status column says *Completed* and a file named *Write-in Contests Results for <Election_Name>.csv* appears in the Final Result column, and then click the filename to download and save it. You can then open the CSV file set using a third-party application, such as Notepad or Microsoft Excel.

5. (Optional) Delete the job from the [Server Background Jobs](#) page by clicking the button in the Actions column and selecting **Delete Job**.



The CSV file resides on the ScanServer computer until it is deleted, or until the ScanServer computer is restarted.

4.3 Custom XSLT file

The ClearCount system lets you import an XSLT (extensible stylesheet language transformations) file and then export it in an XML, CSV, or TXT format.

To create the file:

1. Log in to an election administration station as an administrator.
2. From the drop-down list next to your name in the upper right corner, select **Election Administration**. The Election Administration page appears.
3. Locate the election you want to import an XSLT results file for, click its **Actions** button and select **Import Results XSLT File** from the drop-down list that appears.
4. The Import Results XSLT File dialog appears.
5. Click the **Choose File** button, navigate to the location of the XSLT file that you want to import, select it and click **Open**. Then click the **Import** button.



Only a single XSLT file can reside in the ClearCount system at a time. When you import another XSLT file, the previous file is overwritten.

6. On the Election Administration page, click the election's **Actions** button and select **Export Custom Results Using XSLT File** from the drop-down list that appears.
7. The [Server Background Jobs](#) page appears in a new browser tab. The launched report is topmost in the table and its job type (in the Job column) is *xslt_export*.
8. Wait until the Status column says *Completed* and a file named *Custom Results for <Election_Name>.ext* appears in the Final Result column, and then click the filename to download and save it. You can then open the file set using a third-party application, such as Notepad or Microsoft Excel.



The file has an XML, CSV, or TXT extension, depending upon its content.

9. (Optional) Delete the job from the [Server Background Jobs](#) page by clicking the button in the Actions column and selecting **Delete Job**.



The file resides on the ScanServer computer until it is deleted, or until the ScanServer computer is restarted.

4.4 XML results files

XML results files contain unfiltered, but structured, data extracted from a specific election database. (It is possible to generate periodic "snapshots" of election results, generally while scanning is paused, but not possible to generate filtered data.) The principle user of the schema description and output files is the programmer responsible for transforming any or all of the contained data into custom reports.

A read access level or above is required to generate the XML results file.



Depending upon the size of an election database, processing can take between several minutes and several hours.

4.4.1 Exporting XML results files



The XML results file can only be exported when the Display Vote Totals option is enabled on the Election Administration page. Otherwise, you receive a message indicating that the display of vote totals is not allowed. See "Displaying vote totals" in the *ClearCount Election Administration Guide* for more information.

To export an XML results file:

1. Log in to an election administration station as an administrator.
2. From the drop-down list next to your name in the upper right corner, select **Election Administration**. The Election Administration page appears.
3. Locate the election with the XML results you want to export, click its **Actions** button and select **Export XML Results** from the drop-down list that appears. The [Server Background Jobs](#) page appears in a new browser tab. The launched report is topmost in the table and its job type (in the Job column) is *xml_export*.
4. Wait until the Status column says *Completed* and a file named *XML results for <electionName>.xml* appears in the Final Result column, and then click the filename to download and save it. You can then open the XML file set using a third-party application, such as Notepad or Microsoft Excel.
5. (Optional) Delete the job from the [Server Background Jobs](#) page by clicking the button in the Actions column and selecting **Delete Job**.



The XML file resides on the ScanServer computer until it is deleted, or until the ScanServer computer is restarted.

4.4.2 Election results schema

The Clear Ballot election results schema uses the following XML elements and simple types:

Elements

- "Candidate" on the next page
- "CandidateGroup " on page 74
- "Contest" on page 75
- "ContestGroup " on page 77
- "ContestGroupVotes " on page 78
- "ContestList" on page 78
- "District" on page 79
- "DistrictCategory" on page 80
- "DistrictCategoryMap" on page 81
- "DistrictMap" on page 81
- "Election" on page 82
- "ElectionDate" on page 84
- "Group " on page 84
- "GroupMap" on page 85
- "Jurisdiction" on page 85
- "JurisdictionMap" on page 86
- "Owner" on page 87
- "Party" on page 89
- "PartyMap" on page 90
- "Precinct " on page 90
- "PrecinctGroup" on page 92
- "ReportTime" on page 92
- "Votes" on page 93

Simple types

- "Alternateid" on page 93
- "ContestTypeCode" on page 94
- "GroupTypeCode" on page 95

- "NameDesc" on page 95
- "Percentage" on page 96
- "ResultsTypeCode" on page 96
- "VersionXML" on page 96
- "VoteGroupStatus" on page 97

4.4.2.1 Candidate

Element that provides information for a contest or retention/amendment choice.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned by the tabulation system.
name	NameDesc	Yes	Descriptive name for the candidate name or retention/amendment choice.
partyId	xs:integer	No	As defined for the id attribute of the Party element. This attribute can be blank if a ballot item is not associated with a defined party.
votes	xs:integer	Yes	Total votes for the candidate in the contest.
pos	xs:float	No	Preferred order of appearance in reports. If not present, ChoiceOrder is not set in the BDF.
ImportID	xs:string	No	Unique identifier from source system, such as the state voter registration system. Corresponds to ChoiceImportID in the BDF.
ExportID	xs:string	No	Unique identifier for the destination system, such as a statewide results reporting system. Corresponds to ChoiceExportID in the BDF.

Subelements

Element	Type	Occurs	Description
CandidateGroup	xs:anyType	At least once	Provides election data for a specific candidate group.
Votes	xs:integer (extension)	At least once	Provides candidate votes by precinct or precinct and group.

Referenced by[Contest](#)

Each candidate within a Contest element must have a unique identifier.

Definition

```
<xs:element name="Candidate">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="CandidateGroup" />
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Votes" />
    </xs:sequence>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="name" use="required" type="NameDesc"/>
    <xs:attribute name="partyId" use="optional" type="xs:integer" />
    <xs:attribute name="votes" use="required" type="xs:integer" />
    <xs:attribute name="pos" use="optional" type="xs:float" />
    <xs:attribute name="ImportID" use="optional" type="xs:string" />
    <xs:attribute name="ExportID" use="optional" type="xs:string" />
  </xs:complexType>
</xs:element>
```

4.4.2.2 CandidateGroup

Element that provides election counter group subtotals for a specific candidate.

Attributes

Name	Type	Required	Description
groupId	xs:integer	Yes	As defined for the id attribute of the Group element.
totalVotes	xs:integer	Yes	Total votes for the counter group for the candidate.

Referenced by[Candidate](#)**Definition**

```
<xs:element name="CandidateGroup">
  <xs:complexType>
    <xs:attribute name="groupId" use="required" type="xs:integer" />
    <xs:attribute name="totalVotes" use="required" type="xs:integer"/>
  </xs:complexType>
</xs:element>
```

4.4.2.3 Contest

Element that provides information for a specific contest.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned by the tabulation system.
title	NameDesc	Yes	Descriptive name of the contest.
type	ContestTypeCode	No	Enumerated type, one of: C, Q, E, R, S, P, J.
districtId	xs:integer	No	Numeric identifier
partyId	xs:integer	No	Numeric identifier
voteFor	xs:integer	Yes	Number of votable candidates in the contest.
regVoters	xs:integer	Yes	If registered voter counts are present in the BDF, total number of registered voters (as of book closing).
ballotsCast	xs:integer	Yes	Number of ballots cast.
castPercentage	Percentage	Yes	If registered voter counts are present in the BDF, calculated as: (ballotsCast/regVoters) * 100
writeinVotes	xs:integer	Yes	Number of write-in votes.
overVotes	xs:integer	Yes	Number of overvotes.
underVotes	xs:integer	Yes	Number of undervotes.
totalPrecincts	xs:integer	Yes	Total number of election-day precincts.
precinctsReported	xs:integer	Yes	Number of election-day precincts reporting as of file creation time.
pos	xs:float	No	Preferred order of appearance in reports. If not present, ContestOrder is not set in the BDF.
ImportID	xs:string	No	Unique identifier from source system, such as the state voter registration system. Corresponds to ContestImportID in the BDF.
ExportID	xs:string	No	Unique identifier for the destination system, such as a statewide results reporting system. Corresponds to ContestExportID in the BDF.

Subelements

Element	Type	Occurs	Description
Candidate	xs:anyType	At least once	Provides information for a contest or retention/amendment choice.
ContestGroup	xs:anyType	At least once	Provides election data for a specific ballot type for a contest.

Referenced by

[ContestList](#)



Each contest within a ContestList element must have a unique identifier.

Definition

```
<xs:element name="Contest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Candidate" />
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="ContestGroup" />
    </xs:sequence>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="title" use="required" type="NameDesc"/>
    <xs:attribute name="type" use="optional" type="ContestTypeCode"/>
    <xs:attribute name="districtId" use="optional" type="xs:integer"/>
    <xs:attribute name="voteFor" use="required" type="xs:integer" />
    <xs:attribute name="regVoters" use="required" type="xs:integer" />
    <xs:attribute name="ballotsCast" use="required" type="xs:integer" />
    <xs:attribute name="castPercentage" use="required" type="Percentage" />
    <xs:attribute name="writeinVotes" use="required" type="xs:integer" />
    <xs:attribute name="overVotes" use="required" type="xs:integer" />
    <xs:attribute name="underVotes" use="required" type="xs:integer" />
    <xs:attribute name="totalPrecincts" use="required" type="xs:integer" />
    <xs:attribute name="precinctsReported" use="required" type="xs:integer" />
    <xs:attribute name="pos" use="optional" type="xs:float" />
    <xs:attribute name="ImportID" use="optional" type="xs:string" />
    <xs:attribute name="ExportID" use="optional" type="xs:string" />
  </xs:complexType>
</xs:element>
```

4.4.2.4 ContestGroup

Element that provides counter group subtotals for a contest.

Attributes

Name	Type	Required	Description
groupId	xs:integer	Yes	As defined for the id attribute of the Group element.
ballotsCast	xs:integer	Yes	Number of ballots cast.
totalVotes	xs:integer	Yes	Total number of votes.
writeinVotes	xs:integer	Yes	Number of write-in votes.
overVotes	xs:integer	Yes	Number of overvotes.
underVotes	xs:integer	Yes	Number of undervotes.

Subelements

Element	Type	Occurs	Description
ContestGroupVotes	xs:anyType	At least once	Provides election data for a ballot type for a contest in a specific precinct.

Referenced by

[Contest](#)

Definition

```
<xs:element name="ContestGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="ContestGroupVotes" />
    </xs:sequence>
    <xs:attribute name="groupId" use="required" type="xs:integer" />
    <xs:attribute name="ballotsCast" use="required" type="xs:integer" />
    <xs:attribute name="totalVotes" use="required" type="xs:integer" />
    <xs:attribute name="writeinVotes" use="required" type="xs:integer" />
    <xs:attribute name="overVotes" use="required" type="xs:integer" />
    <xs:attribute name="underVotes" use="required" type="xs:integer" />
  </xs:complexType>
</xs:element>
```

4.4.2.5 ContestGroupVotes

Element that subtotals for a contest by precinct and counter group.

Attributes

Name	Type	Required	Description
refPrecinctId	xs:integer	Yes	As defined for the id attribute of the Precinct element.
ballotsCast	xs:integer	Yes	Number of ballots cast.
totalVotes	xs:integer	Yes	Total number of votes.
writeinVotes	xs:integer	Yes	Number of write-in votes.
overVotes	xs:integer	Yes	Number of overvotes.
underVotes	xs:integer	Yes	Number of undervotes.

Referenced by

[ContestGroup](#)

Definition

```
<xs:element name="ContestGroupVotes">
  <xs:complexType>
    <xs:attribute name="refPrecinctId" use="required" type="xs:integer" />
    <xs:attribute name="ballotsCast" use="required" type="xs:integer" />
    <xs:attribute name="totalVotes" use="required" type="xs:integer" />
    <xs:attribute name="writeinVotes" use="required" type="xs:integer" />
    <xs:attribute name="overVotes" use="required" type="xs:integer" />
    <xs:attribute name="underVotes" use="required" type="xs:integer" />
  </xs:complexType>
</xs:element>
```

4.4.2.6 ContestList

Element that provides the contests in an election.

Attributes

None

Subelements

Element	Type	Occurs	Description
Contest	xs:anyType	At least once	Provides information for a specific contest.

Referenced by

[Election](#)

Definition

```
<xs:element name="ContestList">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Contest" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

4.4.2.7 District

Element that provides information for a specific district.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned by the tabulation system.
districtCategoryId	xs:integer		As defined for the id attribute of the DistrictCategory element.
abbrv	xs:integer	Yes	Short name for the district.
name	NameDesc	Yes	Descriptive name for the district.
pos	xs:float	No	Preferred order of appearance in reports. If not present, then DistrictOrder is not set in the BDF.
ImportID	xs:string	No	Unique identifier from source system, such as the state voter registration system. Corresponds to DistrictImportID in the BDF.
ExportID	xs:string	No	Unique identifier for the destination system, such as a statewide results reporting system. Corresponds to DistrictExportID in the BDF.

Referenced by[DistrictMap](#)

Each district within a DistrictMap element must have a unique identifier.

Definition

```
<xs:element name="District">
  <xs:complexType>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="districtCategoryId" use="required" type="xs:integer" />
    <xs:attribute name="abbrv" use="required" type="xs:NCName" />
    <xs:attribute name="name" use="required" type="NameDesc"/>
    <xs:attribute name="pos" use="optional" type="xs:float" />
    <xs:attribute name="ImportID" use="optional" type="xs:string" />
    <xs:attribute name="ExportID" use="optional" type="xs:string" />
  </xs:complexType>
</xs:element>
```

4.4.2.8 DistrictCategory

Element that provides information for a specific district category.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned by the tabulation system.
name	NameDesc	Yes	Descriptive name for the district category.
pos	xs:float	No	Preferred order of appearance in reports. If not present, then DistrictCategoryOrder is not set in the BDF.
ImportID	xs:string	No	Unique identifier from source system, such as the state voter registration system. Corresponds to DistrictCategoryImportID in the BDF.
ExportID	xs:string	No	Unique identifier for the destination system, such as a statewide results reporting system. Corresponds to DistrictCategoryExportID in the BDF.

Referenced by[DistrictCategoryMap](#)

Each district category within a DistrictCategoryMap element must have a unique identifier.

Definition

```
<xs:element name="DistrictCategory">
  <xs:complexType>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="name" use="required" type="NameDesc"/>
    <xs:attribute name="pos" use="optional" type="xs:float" />
    <xs:attribute name="ImportID" use="optional" type="xs:string" />
    <xs:attribute name="ExportID" use="optional" type="xs:string" />
  </xs:complexType>
</xs:element>
```

4.4.2.9 DistrictCategoryMap

Element that provides all district categories.

Attributes

None

Subelements

Element	Type	Occurs	Description
DistrictCategory	xs:anyType	At least once	Provides information for a specific district category.

Referenced by

[Owner](#)

Definition

```
<xs:element name="DistrictCategoryMap">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="DistrictCategory" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

4.4.2.10 DistrictMap

Element that provides all districts in an election.

Attributes

None

Subelements

Element	Type	Occurs	Description
District	xs:anyType	At least once	Provides information for a specific district.

Referenced by

[Owner](#)

Definition

```
<xs:element name="DistrictMap">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="District" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

4.4.2.11 Election

Element that provides top-level information for a specific election.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned by the tabulation system.
electionName	NameDesc	Yes	Short name or code for the election.
electionTitle	NameDesc	Yes	Descriptive name for the election.
resultsType	ResultsTypeCode	Yes	P—Precinct-level results.
totalBallotsCast	xs:integer	Yes	Total number of ballots cast.
totalRegistration	xs:integer	Yes	Total number of registered voters (as of book closing).
totalCastPercentage	Percentage	Yes	Calculation: (totalBallotsCast/totalRegistration) * 100.
totalPrecincts	xs:integer	Yes	Total number of election-day precincts.
precinctsReported	xs:integer	Yes	Number of election-day precincts reporting.

Name	Type	Required	Description
precinctsReported Percentage	Percentage	Yes	Calculation: (precinctsReported/totalPrecincts) * 100
groupReporting	xs:boolean	Yes	1—Counter group subtotals.
absenteesCompleted	VoteGroupStatus	Yes	Enumerated type, one of: N, P, Y.
earlyVotingCompleted	VoteGroupStatus	Yes	Enumerated type, one of: N, P, Y.
precinctsCompleted	VoteGroupStatus	Yes	Enumerated type, one of: N, P, Y.
provisionalsCompleted	VoteGroupStatus	Yes	Enumerated type, one of: N, P, Y.

Subelements

Element	Type	Occurs	Description
ContestList	xs:anyType	Once	Provides the contests in an election.

Referenced by

[Owner](#)

Definition

```

<xs:element name="Election">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" ref="ContestList" />
    </xs:sequence>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="electionName" use="required" type="NameDesc"/>
    <xs:attribute name="electionTitle" use="required" type="NameDesc"/>
    <xs:attribute name="resultsType" use="required" type="ResultsTypeCode" />
    <xs:attribute name="totalBallotsCast" use="required" type="xs:integer" />
    <xs:attribute name="totalRegistration" use="required" type="xs:integer" />
    <xs:attribute name="totalCastPercentage" use="required" type="Percentage" />
    <xs:attribute name="totalPrecincts" use="required" type="xs:integer" />
    <xs:attribute name="precinctsReported" use="required" type="xs:integer" />
    <xs:attribute name="precinctsReportedPercentage" use="required" type="Percentage" />
    <xs:attribute name="groupReporting" use="required" type="xs:boolean" />
    <xs:attribute name="absenteesCompleted" use="required" type="VoteGroupStatus" />
    <xs:attribute name="earlyVotingCompleted" use="required" type="VoteGroupStatus" />
    <xs:attribute name="precinctsCompleted" use="required" type="VoteGroupStatus" />
    <xs:attribute name="provisionalsCompleted" use="required" type="VoteGroupStatus" />
  </xs:complexType>
</xs:element>

```

4.4.2.12 ElectionDate

Element that provides the election date.

Attributes

None

Referenced by

[Owner](#)

Definition

```
<xs:element name="ElectionDate" type="xs:dateTime" />
```

4.4.2.13 Group

Element that provides a counter group.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned to the group by the tabulation system.
groupType	GroupTypeCode	Yes	Enumerated type, one of: AV,, ED, EV, OT, PV, TV.
name	NameDesc	Yes	Descriptive name for the group.

Referenced by

[GroupMap](#)

Definition

```
<xs:element name="Group">
  <xs:complexType>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="groupType" use="required" type="GroupTypeCode" />
    <xs:attribute name="name" use="required" type="NameDesc" />
  </xs:complexType>
</xs:element>
```

4.4.2.14 GroupMap

Element that provides all counter groups.

Attributes

None

Subelements

Element	Type	Occurs	Description
Group	xs:anyType	At least once	Provides a specific ballot type.

Referenced by

[Owner](#)

Definition

```
<xs:element name="GroupMap">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Group" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

4.4.2.15 Jurisdiction

Element that provides vote and precinct information for a specific jurisdiction.

Attributes

Name	Type	Required	Description
title	NameDesc	Yes	Name (or code) for the state or county.
typeId	xs:integer	Yes	1—State 2—County
totalBallotsCast	xs:integer	Yes	Total number of ballots cast.
totalRegistration	xs:integer	Yes	Total number of registered voters (as of book closing).

totalCastPercentage	Percentage	Yes	Calculation: (totalBallotsCast/totalRegistration) * 100
totalPrecincts	xs:integer	Yes	Total number of election-day precincts.
precinctsReported	xs:integer	Yes	Number of election-day precincts reporting.
precinctsReported Percentage	Percentage	Yes	Calculation: (precinctsReported/totalPrecincts) * 100

Subelements

Element	Type	Occurs	Description
Precinct	xs:anyType	At least once	Provides information for a specific precinct in a jurisdiction.

Referenced by

[JurisdictionMap](#)

Definition

```

<xs:element name="Jurisdiction">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Precinct" />
    </xs:sequence>
    <xs:attribute name="title" use="required" type="NameDesc" />
    <xs:attribute name="typeId" use="required" type="xs:integer" />
    <xs:attribute name="totalBallotsCast" use="required" type="xs:integer" />
    <xs:attribute name="totalRegistration" use="required" type="xs:integer" />
    <xs:attribute name="totalCastPercentage" use="required" type="Percentage" />
    <xs:attribute name="totalPrecincts" use="required" type="xs:integer" />
    <xs:attribute name="precinctsReported" use="required" type="xs:integer" />
    <xs:attribute name="precinctsReportedPercentage" use="required" type="Percentage" />
  </xs:complexType>
</xs:element>

```

4.4.2.16 JurisdictionMap

Element that provides the number of jurisdictions reporting.

Attributes

Name	Type	Required	Description
totalJurisdictions	xs:integer	Yes	Number of jurisdictions to report on. If: 1—County
reportingJurisdictions	xs:integer	Yes	Number of jurisdictions reporting. If: 1—County
percentReported	Percentage	Yes	Calculation: (reportingJurisdiction/totalJurisdictions) * 100

Subelements

Element	Type	Occurs	Description
Jurisdiction	xs:anyType	At least once	Provides vote and precinct information for a specific jurisdiction.

Referenced by

[Owner](#)

Definition

```
<xs:element name="JurisdictionMap">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Jurisdiction" />
    </xs:sequence>
    <xs:attribute name="totalJurisdictions" use="required" type="xs:integer" />
    <xs:attribute name="reportingJurisdictions" use="required" type="xs:integer" />
    <xs:attribute name="percentReported" use="required" type="Percentage" />
  </xs:complexType>
</xs:element>
```

4.4.2.17 Owner

Element that provides identifying information for the XML results file.

Attributes

Name	Type	Required	Description
name	xs:string	Yes	Vendor name and version number of the application that generates the results.

Name	Type	Required	Description
xmlversion	VersionXML	Yes	XML version (3.0-P).

Subelements

Element	Type	Occurs	Description
ElectionDate	xs:dateTime	Once	Provides the election date.
ReportTime	xs:dateTime	Once	Provides the report generation timestamp.
JurisdictionMap	xs:anyType	Once	Provides vote and precinct information for a specific jurisdiction.
GroupMap	xs:anyType	Once	Provides all ballot types.
PartyMap	xs:anyType	Once	Provides all parties in an election.
Election	xs:anyType	Once	Provides top-level information for a specific election.

Referenced by

(root element)

Definition

```
<xs:element name="Owner">
```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" ref="ElectionDate" />
        <xs:element minOccurs="1" ref="ReportTime" />
        <xs:element minOccurs="1" ref="JurisdictionMap" />
        <xs:element minOccurs="1" ref="GroupMap" />
        <xs:element minOccurs="1" ref="PartyMap" />
        <xs:element minOccurs="1" ref="Election" />
      </xs:sequence>
      <xs:attribute name="name" use="required" type="xs:string" />
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="1" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="xmlversion" use="required" type="VersionXML"/>
  </xs:complexType>
</xs:element>

```


4.4.2.18 Party

Element that provides information for a specific party.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned by the tabulation system. If: 0—The "party" is a contest party ID in a general election.
abbrv	xs:NCName	Yes	Short name for the party.
name	NameDesc	Yes	Descriptive name for the party.
pos	xs:float	No	Preferred order of appearance in reports. If not present, then PartyOrder is not set in the BDF.
ImportID	xs:string	No	Unique identifier from source system, such as the state voter registration system. Corresponds to PartyImportID in the BDF.
ExportID	xs:string	No	Unique identifier for the destination system, such as a statewide results reporting system. Corresponds to PartyExportID in the BDF.

Referenced by

[PartyMap](#)



Each party within a PartyMap element must have a unique identifier.

Definition

```
<xs:element name="Party">
  <xs:complexType>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="abbrv" use="required" type="xs:NCName" />
    <xs:attribute name="name" use="required" type="NameDesc"/>

    <xs:attribute name="pos" use="optional" type="xs:float" />
    <xs:attribute name="ImportID" use="optional" type="xs:string" />
    <xs:attribute name="ExportID" use="optional" type="xs:string" />
  </xs:complexType>
</xs:element>
```

4.4.2.19 PartyMap

Element that provides all parties in an election.

Attributes

None

Subelements

Element	Type	Occurs	Description
Party	xs:anyType	At least once	Provides information for a specific party.

Referenced by

[Owner](#)

Definition

```
<xs:element name="PartyMap">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="Party" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

4.4.2.20 Precinct

Element that provides information for a specific precinct in a jurisdiction.

Attributes

Name	Type	Required	Description
id	xs:integer	Yes	Numeric identifier assigned to the precinct by the tabulation system.
ballotsCast	xs:integer	Yes	Total number of ballots cast.
regVoters	xs:integer	Yes	If registered voter counts are present in the BDF, total number of registered voters (as of book closing).
castPercentage	Percentage	Yes	If registered voter counts are present in the BDF, calculated as: (ballotsCast/regVoters) * 100

counted	xs:boolean	Yes	If IsReporting is set properly in the BDF votergroups table: 0—Election-Day precinct not reported. 1—Election-Day precinct reported.
name	NameDesc	Yes	Descriptive name for the precinct.
pos	xs:float	No	Preferred order of appearance in reports. If not present, PrecinctOrder is not set in the BDF.
ImportID	xs:string	No	Unique identifier from source system, such as the state voter registration system. Corresponds to PrecinctImportID in the BDF.
ExportID	xs:string	No	Unique identifier for the destination system, such as a statewide results reporting system. Corresponds to PrecinctExportID in the BDF.

Subelements

Element	Type	Occurs	Description
PrecinctGroup	xs:anyType	At least once	Provides counter group subtotals for a specific precinct.

Referenced by

[Jurisdiction](#)

Each precinct within a Jurisdiction element must have a unique identifier.

Definition

```

<xs:element name="Precinct">
  <xs:complexType mixed="false">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" ref="PrecinctGroup" />
    </xs:sequence>
    <xs:attribute name="id" use="required" type="xs:integer" />
    <xs:attribute name="ballotsCast" use="required" type="xs:integer" />
    <xs:attribute name="castPercentage" use="required" type="Percentage" />
    <xs:attribute name="counted" use="required" type="xs:boolean" />
    <xs:attribute name="regVoters" use="required" type="xs:integer" />
    <xs:attribute name="name" use="required" type="NameDesc" />
    <xs:attribute name="pos" use="optional" type="xs:float" />
    <xs:attribute name="ImportID" use="optional" type="xs:string" />
    <xs:attribute name="ExportID" use="optional" type="xs:string" />
  </xs:complexType>
</xs:element>

```

4.4.2.21 PrecinctGroup

Element that provides counter group subtotals for a precinct.

Attributes

Element	Type	Occurs	Description
groupId	xs:integer	Yes	As defined for the id attribute of the Group element.
ballotsCast	xs:integer	Yes	Number of ballots cast.

Referenced by

[Precinct](#)

Definition

```
<xs:element name="PrecinctGroup">
  <xs:complexType>
    <xs:attribute name="groupId" use="required" type="xs:integer" />
    <xs:attribute name="ballotsCast" use="required" type="xs:integer" />
    <xs:simpleType>
      <xs:restriction base="xs:integer">
        <xs:minInclusive value="0">
        </xs:minInclusive>
      </xs:restriction>
    </xs:simpleType>
  </xs:complexType>
</xs:element>
```

4.4.2.22 ReportTime

Element that provides the report generation timestamp.

Attributes

None

Referenced by

[Owner](#)

Definition

```
<xs:element name="ReportTime" type="xs:dateTime" />
```

4.4.2.23 Votes

Provides votes by precinct or precinct and group.

Attributes

Name	Type	Required	Description
refPrecinctId	xs:integer	Yes	As defined for the id attribute of the Precinct element.
groupId	xs:integer	Yes	As defined for the id attribute of the Group element.

Referenced by

[Candidate](#)

Definition

```
<xs:element name="Votes">
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:integer">
        <xs:attribute name="refPrecinctId" use="required" type="xs:integer" />
        <xs:attribute name="groupId" use="required" type="xs:integer" />
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

4.4.2.24 Alternateid

Simple type used for secondary identifiers.

Value

String of 0–22 characters

Definition

```
<xs:simpleType name="Alternateid">
  <xs:restriction base="xs:string">
    <xs:minLength value="0" />
    <xs:maxLength value="22" />
  </xs:restriction>
</xs:simpleType>
```

4.4.2.25 ContestTypeCode

Simple type used for contest type codes.

Value

Enumeration:

Type	Description
C	Normal contest with candidates
Q	Question contest (such as, amendment)
E	A question contest about retention (such as, judge)
R	Recall contest (Do you want to recall [Candidate]?)
S	Straight-party selection contest
P	Party preference contest (sometimes called <i>pick-a-party</i>)
J	Judge initials contest

Definition

```
<xs:simpleType name="ContestTypeCode">
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="C"/>
    <xs:enumeration value="Q"/>
    <xs:enumeration value="E"/>
    <xs:enumeration value="R"/>
    <xs:enumeration value="S"/>
    <xs:enumeration value="P"/>
    <xs:enumeration value="J"/>
  </xs:restriction>
</xs:simpleType>
```

4.4.2.26 GroupTypeCode

Simple type used for ballot type codes.

Value

Below is an enumeration example:

Type	Description
AV	Absentee
ED	Election Day
EV	Early voting
OT	Other (overseas, unscanned, and so on)
PV	Provisional
TV	Total votes

Definition

```
<xs:simpleType name="GroupTypeCode">
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="AV"/>
    <xs:enumeration value="ED"/>
    <xs:enumeration value="EV"/>
    <xs:enumeration value="OT"/>
    <xs:enumeration value="PV"/>
    <xs:enumeration value="TV"/>
  </xs:restriction>
</xs:simpleType>
```

4.4.2.27 NameDesc

Simple type used for names of elements and attributes.

Value

String of 0–75 characters

Definition

```
<xs:simpleType name="NameDesc">
  <xs:restriction base="xs:string">
    <xs:minLength value="0" />
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:maxLength value="75" />
  </xs:restriction>
</xs:simpleType>

```

4.4.2.28 Percentage

Simple type used for calculated percentages.

Value

Floating number

Definition

```

<xs:simpleType name="Percentage">
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0.0" />
  </xs:restriction>
</xs:simpleType>

```

4.4.2.29 ResultsTypeCode

Simple type used for denoting precinct-level election results.

Value

Enumeration:

Type	Description
P	30-day precinct-level results.

Restriction

None

Definition

```

<xs:simpleType name="ResultsTypeCode">
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="P"/>
  </xs:restriction>
</xs:simpleType>

```

4.4.2.30 VersionXML

Simple type used for XML version.

Value

Enumeration:

Type	Description
3.0-P	Precinct Results Version 3.0-P effective July 2015

Definition

```
<xs:simpleType name="VersionXML">  
  <xs:restriction base="xs:NMTOKEN">  
    <xs:enumeration value="3.0-P"/>  
  </xs:restriction>  
</xs:simpleType>
```

4.4.2.31 VoteGroupStatus

Simple type used for statusing tabulation of voting groups.

Value

Enumeration:

Type	Description
N	Not processed
P	Processing
Y	Completed

Definition

```
<xs:simpleType name="VoteGroupStatus">  
  <xs:restriction base="xs:NMTOKEN">  
    <xs:enumeration value="N" />  
    <xs:enumeration value="P" />  
    <xs:enumeration value="Y" />  
  </xs:restriction>  
</xs:simpleType>
```