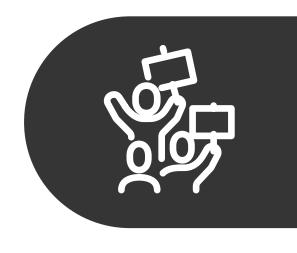


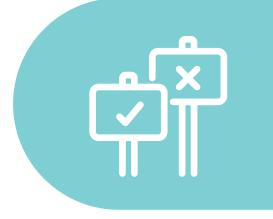
MARYLAND

Ranked Choice Voting
State Readiness Assessment
2023 Edition

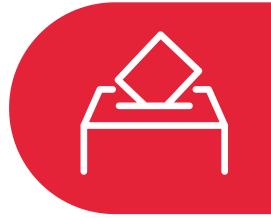
Table of Contents

1. Introduction	3
2. Election Administration	4
3. Voter Education	5
4. Ballot Design	7
Ballot Design Resources	8
5. Ballot Counting and Centralization	9
Results Reporting in All Elections	10
Changes Required to Produce RCV Results	11
Types of RCV Results	11
Centralization Options for RCV	13
Producing RCV Results	15
When to Produce RCV Results	16
Displaying RCV Results	16
6. RCV Audits	17
7. RCV Recounts	17
8. Voting Systems in Maryland	18
Counties with RCV-capable voting systems	20
Remote Ballot Marking Systems	20
9. Conclusion	20
10. Appendix	21
Counties with RCV-capable voting systems	22
Grid Ballots	23
Column Ballots	28
Touchscreen/Accessible Ballots	31
Best Practices Ballot Instructions	35











RANKED CHOICE VOTING AND **ELECTION ADMINISTRATION IN** THE STATE OF MARYLAND

1 Introduction

Election administration is the day-to-day work required to run elections in the United States. This assessment provides a high-level introduction to ranked choice voting (RCV) election administration and analyzes the RCV capability of voting systems used throughout Maryland. Advocates, administrators, and policymakers can use this document to understand the outlines of the primary administrative changes required to run an RCV election and to determine what updates, if any, are required to become RCV Ready.

Detailed analysis of election law and administrative practices is an important part of designing effective RCV legislation. That level of detail is beyond the scope of this assessment. Readers wishing to learn more about the details of RCV administration should review the Technical Implementation section of RCVRC, RepresentUs, and Democracy Rising's Protect the Win report and associated resources to go beyond the high-level introduction offered in this document.1 Those looking to learn more about RCV under the election laws in their state should contact a member of the RCV legal roundtable, which has representatives from Campaign Legal Center, FairVote, Protect Democracy, Ranked Choice Voting Resource Center, RepresentUs, and Unite America (as of April 2023). If you are interested in a more detailed assessment of your state, please reach out to the Ranked Choice Voting Resource Center (info@rcvresources.org or 1-833-VOTE-RCV (868-3728)), and we can work with you on producing the additional information.

These assessments provide scores grading the readiness of each state to run RCV elections statewide. Scores are based on what voting systems each state uses, and states are labeled as RCV Ready, RCV Capable, Prepping for RCV, or Updates Needed for RCV.² This score, however, is just an indication of the amount of work necessary to implement RCV in that state. We know from experience that election administrators are adept at implementing change when it is necessary to do so. RCV Maps is not intended to suggest or prove that any state or local jurisdiction is incapable of implementing RCV. While some states may have more work to do when implementing RCV than others, no state is fundamentally incapable of implementing RCV due to its current election administration infrastructure.

² For more information on how states are categorized and scored, check out the Ranked Choice Voting Resource Center, How We Score States Guide v.2.0, (Mar. 2023), https://drive.google.com/file/d/1oFHcilTkw67xcZV6UzFNO881_eb1H97i/view.



¹ Grace Ramsey, Chris Hughes, Kelly Sechrist, Ryan Kirby, David O'Brien, and Anh-Linh Kearney, Protect The Win: An Advocate's Guide To Implementing Ranked Choice Voting, Democracy Rising, Ranked Choice Voting Resource Center, and RepresentUs (Mar. 2023), https://www.rcvresources.org/theimplementation-project.

2 Election Administration

The people tasked with running elections are known as election administrators. In most states, the state-level election administrator is the Secretary of State. City/County Clerks or City/County Boards of Elections administer elections at the local level. In each state, election administration is a home-grown process. Depending on the state, administering elections can be highly decentralized, with City or County Clerks acting mostly independently of the state and of one another (as in Wisconsin).3 Alternatively, it can be highly centralized, with City and County Clerks working in close coordination with or at the direction of the state (as in Maryland).⁴ Some states have specific functions that are highly centralized at the state level (like ballot design) while leaving other functions entirely up to the locality (like certifying candidates for election).

Election administration tasks include:

- Registering voters
- Certifying candidates and issues for the ballot
- Designing ballots
- Certifying voting systems for use in elections
- Programming voting systems for upcoming elections
- Administering campaign finance reporting systems
- Sending out absentee ballots
- Testing voting systems before elections (known as Logic & Accuracy testing)

- Training poll workers
- Finding polling places
- Processing and counting ballots
- Canvassing and certifying election results
- Conducting post-election audits
- Conducting recounts
- And more!

Depending on the state, election administrators may wear other hats as well. In addition to running elections, many also register deeds, issue marriage certificates, collect documents, and coordinate City or County Council meetings, among other tasks.5

The federal government is minimally involved in election administration. The Election Assistance Commission (EAC) is the federal agency tasked with overseeing election administration in the United States. 6 The EAC is a supportive agency purposefully designed to have little power over the work of state and local administrators. At this point, the EAC's primary role is to distribute federal election administration funding to states. In addition, they serve as a clearinghouse for election administration documents and best practices from the states, and they set voluntary voting systems standards known as the Voluntary Voting System Guidelines (VVSG).8 Some states require voting systems to meet EAC certification standards, but most do not.9

⁹ U.S. Election Assistance Commission, State Requirements and the U.S. Election Assistance Commission Voting System Testing and Certification Program (Sept. 4, 2020), https://www.eac.gov/sites/default/files/TestingCertification/State_Requirements_for_Certification09042020.pdf.



³ Wisconsin Elections Commission, Wisconsin Elections, https://elections.wi.gov/elections (last visited Mar. 7, 2023).

⁴ See Maryland State Board of Elections, About SBE, https://www.elections.maryland.gov/about/index.html (last visited Mar. 10, 2023).

⁵ For an illustrative list of county clerk tasks, see Jacqueline J. Byers, Role of the County Clerk, National Association of Counties (Nov. 2008), https://drive.google.com/file/d/1jbkjV_8dcidzDXfvn3EEcnCTYLUR3SGZ/view.

⁶ U.S. Election Assistance Commission, About the U.S. EAC, https://www.eac.gov/about-the-useac (last visited Mar. 3, 2023).

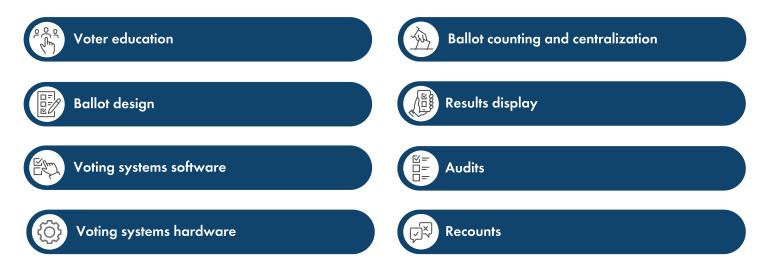
⁷ See Congressional Research Service, The U.S. Election Assistance Commission (EAC): Overview and Selected Issues for Congress 3 (Feb. 23, 2023), https://crsreports.congress.gov/product/pdf/R/R45770.

⁸ U.S. Election Assistance Commission, Voluntary Voting System Guidelines, https://www.eac.gov/voting-equipment/voluntary-voting-systemguidelines (last visited Mar. 3, 2023).

In Maryland, election administration responsibilities are divided between the State Board of Elections and County Boards of Elections.¹⁰ The State Board of Elections sets election administration standards, certifies voting systems for use in the state, certifies ballots for use in elections, certifies state and federal election results, and runs the statewide voter registration database.¹¹ County Board tasks include registering voters, certifying candidate nominations, designing ballots, programming voting equipment for elections (to include setting up ranked choice voting counting rules), processing absentee ballots, checking and reporting election results, and all other aspects of managing the election process.¹² Contact information for County Boards of Election can be found on the State Board of Elections' website.¹³

The City of Takoma Park already uses RCV for municipal elections.¹⁴ Where relevant, their practices are referenced or considered when analyzing Maryland's readiness for RCV implementation.

While election administration practices vary across the country, election administration domains impacted by ranked choice voting (RCV) fall into a few standard categories:



This assessment begins with a high-level discussion of voter education, ballot design, ballot counting and centralization, audits, and recounts in RCV elections. Those sections of the assessment are designed to introduce readers to each topic and give them a roadmap for how RCV elections work in general. The assessment then provides a detailed analysis of the voting systems used in Maryland to help advocates and administrators understand the major technological barriers, if any, to RCV implementation in their state.

3 Voter Education

Educating the public about ranked choice voting (RCV) is a necessary part of administering a successful RCV election. Voters need to be taught two things: how to mark the ballot and how votes are counted. Up to and on Election Day, voters are most interested in learning how to mark their ballot. Voter education should focus on this aspect during that time frame by showing voters what the ballot will look like and giving them as many opportunities as practicable to

¹⁴ Takoma Park City Charter art. VI, § 606.



¹⁰ Baltimore City is an independent city that is on par with other counties. For the purpose of this assessment, they will also be included in the term "county" unless otherwise specified. Md. Code, Gen. Prov. § 1-107.

¹¹ Md. Code, Elec. Law § 2-102; Bolts Magazine, Who Runs Our Elections?, https://boltsmag.org/whats-on-the-ballot/local-election-administration/ (last visited Sept. 1, 2023).

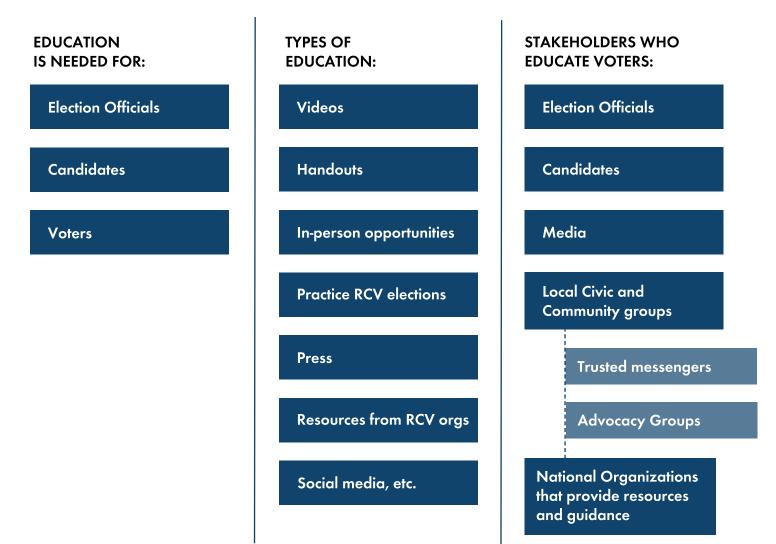
¹² Md. Code, Elec. Law § 2-202.

¹³ Maryland State Board of Elections, Local Boards of Election, https://www.elections.maryland.gov/about/county_boards.html (last visited Sept. 6, 2023).

practice marking the ballot. Some voters will be interested in understanding the vote tabulation process, but most will not focus on that until closer to and after Election Day. Materials such as videos and handouts describing how votes are tabulated should be made available before Election Day for interested members of the public but will be most valuable after polling places close.

While it is simple to describe the goals of an RCV education campaign, successful voter education requires a substantial effort by election administrators and local stakeholders. RCV education and outreach should complement pre-existing education efforts for voters, candidates, and election officials. Such efforts also benefit from coordination with community and civic organizations throughout a city, county, or state.

The Ranked Choice Voting Resource Center website provides links to a variety of education and outreach methods that jurisdictions have used. 15 The Center for Civic Design provides best practices and implementation support for RCV voter education campaigns.¹⁶ Democracy Rising provides voter education and candidate training support for RCV campaigns and jurisdictions.¹⁷ The Voter & Candidate education section of the Protect the Win RCV implementation report also provides best practices and resources for conducting RCV voter education.¹⁸ Effective use of these resources will ensure that any RCV education campaign follows best practices and will reach the most voters possible.



¹⁵ Ranked Choice Voting Resource Center, Voter Education and Outreach, https://www.rcvresources.org/pre-election (last visited Mar. 7, 2023).

¹⁸ Ramsey et al., supra note 1.



¹⁶ Center for Civic Design, Design Principles for Ranked Choice Voting, https://civicdesign.org/topics/rcv/ (last visited Mar. 7, 2023).

¹⁷ Democracy Rising, https://www.wearedemocracyrising.org/.

4 Ballot Design

Designing ballots is a crucial yet challenging part of running a successful election. Ballot design must incorporate the voting method required for each contest, the total number of contests, and the number of candidates in each contest while simultaneously providing voters with clear and concise instructions in any given election and complying with relevant laws regulating ballot design.

Successful ballot design takes time. Several months before any election, election administrators at all levels determine the contests that should appear on the ballot and prepare for the candidate filing or nomination period.¹⁹ After the candidate filing or nomination period closes, election administrators collect lists of all the contests required and candidates qualified to appear on a ballot. Administrators then create a ballot using either ballot design software from their voting system vendors or software developed in-house.²⁰ After creating these draft ballots, officials proof ballots for accuracy and adherence to state or local design requirements.²¹ Once the review process is complete, election administrators submit ballot designs to printing companies, who then provide election offices with printed ballots for their elections.²²

The contests appearing on the ballot vary within states, counties, and cities, depending on the offices up for election in a given voter's assigned precinct. Due to this variation, election administrators design many different ballots for any given election. To track and manage these different ballot designs, election administrators assign each unique ballot design a style label.²³ This label may be a simple letter or number designation. For larger, more complex elections, ballot-style labels can require a more intricate naming process.

Ranked choice voting (RCV) needs additional consideration in the ballot design process. RCV contests require more space on a ballot than non-RCV contests and require relevant instructions for voters to read. In addition, states may have particular ballot design requirements that election administrators need to conform RCV to when designing their ballots. Voting systems also vary in the types of RCV ballots they can design. These considerations are unwieldy to resolve in the abstract. This section instead describes the ballot design process and points readers towards resources that will help them design ballots if and when RCV is adopted. If interested in deeper legal analyses, contact a member of the RCV legal roundtable, which has representatives from Campaign Legal Center, FairVote, Protect Democracy, Ranked Choice Voting Resource Center, RepresentUs, and Unite America (as of August 2023). More detailed administrative analyses are also available upon request.

²² Ballot design concludes well in advance of Election Day in order to provide time for printing out large orders of ballots, sending ballots to voters who are in the military or living overseas, sending ballots to voters who request them by mail, and getting ballots back in time for Logic and Accuracy testing of voting systems (when programmed election equipment is tested to confirm that it will behave as it is programmed to on Election Day). ²³ See The Elections Group, Ballot Proofing (June 2022), https://www.electionsgroup.com/ballot-proofing.



¹⁹ U.S. Election Assistance Commission, Chapter 5: Ballot Building, in Election Management Guidelines 41, 41 (2010), https://www.eac.gov/sites/ default/files/eac_assets/1/6/Chapter_5_Ballot_Building.pdf

²⁰ Id. at 42.

²¹ Id. at 44.

BALLOT TIMELINE

STEP 1:	STEP 2:	STEP 3:	STEP 4:	STEP 5:
Determine contests on ballot	Prepare for filing/ nomination period	Create ballot	Proof ballots for accuracy/ compliance	Submit ballot designs to printing company

BALLOT DESIGN RESOURCES

The Center for Civic Design (CCD), FairVote, and the Ranked Choice Voting Resource Center (RCVRC) have published a number of reports on designing RCV ballots. When designing an RCV ballot, administrators should follow the EAC's best practices for designing any ballot.²⁴ In addition, CCD highlights the following major questions for election administrators to answer when designing RCV ballots:

- Is ranking new for your voters?
- How many contests will include rankings? Where are those contests in the overall ballot order?
- What are your legal requirements for ballot design, especially requirements for the number of choices available for ranking?
- Does your voting system support RCV ballot layout?²⁵

CCD also provides best practices for designing RCV ballots.²⁶ FairVote and RCVRC published a report analyzing RCV election data from across the country to better understand how voters use RCV ballots and identify best practices for RCV ballots that complement those from CCD.27

Election administrators often wonder whether it is possible to include RCV and non-RCV contests on the same ballot, as well as how to include write-in lines in RCV contests. Both are possible. Real-world examples of each are included in the appendix and in CCD best practices.²⁸

Administrators and advocates should also understand what sorts of RCV ballots the voting systems used in a jurisdiction can design. The two primary forms of ranked choice ballots in use in the United States are column-style and grid-style ballots. Examples of those ballots are included in the appendix. Voting systems in all 24 counties currently used in Maryland can handle either or both of these forms of RCV ballot. The Voting Systems section of this assessment briefly discusses the forms of RCV ballots available via the voting systems used in Maryland. Samples of vendor RCV ballots, where available, are also provided in the appendix.

²⁸ Center for Civic Design, supra note 23, at 15.



²⁴ U.S. Election Assistance Commission, Designing Polling Place Materials, https://www.eac.gov/election-officials/designing-polling-placematerials (last visited Mar. 3, 2023).

²⁵ Center for Civic Design, Best Practices: Designing Ranked Choice Voting Ballots 4 (July 2022), https://civicdesign.org/wp-content/ uploads/2022/10/CCD-RCV-Best-Practices-Ballot-Design-2022-1.pdf. 26 Id.

²⁷ FairVote & Ranked Choice Voting Resource Center, Ranked Choice Voting Ballot Usage Analysis and Design Recommendations (Sept. 19, 2022), https://www.rcvresources.org/blog-post/ranked-choice-voting-ballot-usage-analysis-and-design-recommendations.

5 Ballot Counting and Centralization

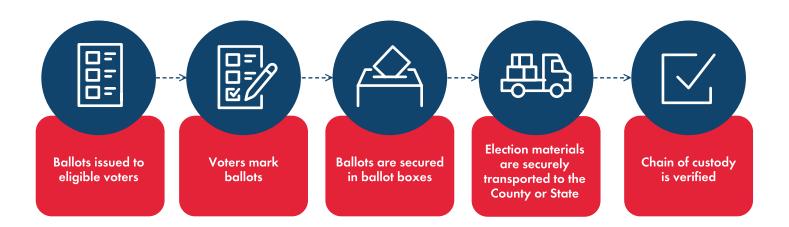
Producing election results is a high-pressure part of the election process. Voters, candidates, and the press all clamor for results to come out quickly on election night, but those election night results are increasingly preliminary.²⁹ While results have never actually been final on election night - election administrators certify final, official election results anywhere from a few days to a month after Election Day - the parallel rise of vote-by-mail processes and politically motivated attacks on the election process has brought into sharp relief the difference between election night results and final, certified results. Ranked choice voting (RCV) also tends to put a spotlight on this difference.

Two aspects of RCV contribute to this:

- A new election results process; and
- The requirement to centralize RCV data from across the election jurisdiction (whether at the city, county, or state level).

These factors mean the public will be more sensitive to the preexisting complexities of the results counting process that RCV can highlight. These pressures make it important to provide RCV results in a transparent, understandable way. To help administrators and advocates determine the most effective way to produce RCV results in Maryland, this section briefly describes the major administrative changes necessary to produce RCV results at the state level.³⁰ It starts by describing the results production process in general (for any election, RCV or not), then discusses the types of results produced in RCV elections now, processes for centralizing the data necessary to produce RCV results, processes for producing RCV results themselves, and best practices for displaying RCV results.

A more detailed memo digging into the details of centralization, results timing, and results display is also available for those interested in learning more. Note that this section does not cover specific legal, policy, and administrative changes necessary to implement RCV in Maryland. If interested in a more detailed analysis, contact the Ranked Choice Voting Resource Center (RCVRC) and/or Legal Roundtable to discuss producing a memo covering this topic area in Maryland.



²⁹ John Curiel, Charles Stewart III, and Jack Williams, The Blue Shift in the 2020 Election, MIT Election Data + Science Lab (Apr. 27, 2021), https://electionlab.mit.edu/sites/default/files/2021-04/Blue-Shift-in-2020-Election.pdf.

³⁰ Producing RCV results at the city or county level also requires updates to processes. Every aspect of the results production process described in this section applies to city or county-level results too. Many cities or counties already centralize election materials (results, ballots, scanners, and other materials) back to the local elections office post-Election Day. Because of this, centralizing RCV results should require fewer process updates for city and county-level elections than for state-level elections.



RESULTS REPORTING IN ALL ELECTIONS

There are two major stages to the results reporting process in any election:

- **Unofficial results** are incomplete results, a category that includes election night reporting.
- Official results are the final results of an election.

Starting on election night, election officials post unofficial results at precincts, election offices, and/or on unofficial results reporting websites.³¹ This period of unofficial results reporting is also known as election night reporting.³² Election night results may or may not include absentee or early voting ballots and will not include provisional ballots or ballots that cannot be read by a voting machine in the polling place.³³ After Election Day, jurisdictions continue counting ballots; as more ballots are counted, jurisdictions update unofficial results.

Official results are the final, certified results of an election. These results include votes from all ballots cast in an election, provide the official record of total votes for each candidate in each contest, and are used as the record to certify the official winner(s) in every contest.³⁴ The body responsible for certifying state election results varies depending on the state and the level of government being elected. The State Board of Elections certifies state contests in Maryland, while Local Boards of Elections certify local offices such as Councilmembers or Commissioners in Maryland.35

Processes for centralizing election results vary across states. On election night, poll workers typically print out or copy down results totals for each contest from voting systems in polling places.³⁶ Poll workers then call in, handdeliver, or enter those numbers on secure web portals to report totals to city or county election administrators.³⁷ For state and federal elections, those city or county administrators then report election night results up to the state level, using that same possible variety of reporting procedures. These cycles of counting ballots and reporting results continue until all ballots are counted. Official results are those results produced once every single eligible ballot is counted.

³⁶ Victoria Hammitt, What Happens To My Ballot After I Vote?, Campaign Legal Center (Dec. 13, 2021), https://campaignlegal.org/update/ what-happens-my-ballot-after-i-vote. ³⁷ Id.



³¹ Election Assistance Commission, Election Results, Canvass, And Certification, https://www.eac.gov/election-officials/election-results-canvassand-certification (last visited Mar. 7, 2023).

³² Id.

³³ Like all elections processes, this varies across and within states. Some states begin scanning absentee ballots on Election Day after polls open, while other states wait until polls close to begin scanning ballots. Some states are permitted to begin processing absentee ballots (steps such as checking signatures and other verification measures on absentee envelopes) before Election Day but may not scan those ballots until Election Day, while other states must wait until Election Day (or after) to begin all processing of absentee ballots.

³⁴ Election Assistance Commission, supra note 31.

³⁵ Bolts Magazine, Who Counts Our Elections?, https://boltsmag.org/whats-on-the-ballot/who-counts-our-elections/ (last visited Sept. 1, 2023); Md. Code, Elec. Law §§ 2-102, 2-202; Md. Code, Local Gov't §§ 9-204, 9-401.

CHANGES REQUIRED TO PRODUCE RCV RESULTS

RCV results can be produced following many of the pre-existing practices and procedures used in a jurisdiction to produce results in other types of elections. There are some changes necessary to adapt to RCV, however. The major changes are that:

- Election administrators need to centralize data known as the cast vote record (CVR) to produce round-by-round results, if required;
- Administrators may need to conduct multiple rounds of counting to determine winners in RCV elections;
 - To efficiently run rounds of counting, administrators need access to software that can run the RCV round-byround count (discussed in detail in section 8. Voting Systems below);
- RCV results need to be displayed clearly to explain to voters who won.

Election administrators will also need to determine how and when they will produce round-by-round RCV results. Best practice is to produce round-by-round RCV results as ballots come in, with updates provided as frequently as possible within established election policies. This parallels pre-existing results reporting processes in non-RCV elections. Any results timeline should be clearly communicated well in advance of Election Day to set expectations. This is discussed in greater detail in the Ranked Choice Voting Resource Center's (RCVRC) and FairVote's Results Reporting Best Practices document, as well as RCVRC's How to Produce RCV Results policy brief.³⁸

TYPES OF RCV RESULTS

In the United States, RCV jurisdictions produce two forms of results: first-choice results and round-by-round results.³⁹ First-choice results report the number of first-choice rankings that each candidate received. Many RCV elections are determined on the basis of first-choice results alone because one candidate receives a majority of votes in the first round.40

⁴⁰ FairVote, Research and Data on RCV in Practice, https://fairvote.org/resources/data-on-rcv/#majority-winners-in-rcv-elections (last visited Mar. 8, 2023).



³⁸ FairVote & Ranked Choice Voting Resource Center, Best Practices for Releasing RCV Election Results (Dec. 2022), https://www.rcvresources. org/blog-post/best-practices-for-releasing-rcv-election-results; Ranked Choice Voting Resource Center, How to Produce RCV Results (Aug. 2023), https://drive.google.com/file/d/1vy5jlmSzf6YHl9JRe6wS8B87AvbDR97m/view.

³⁹ Equal Democracy Project & Ranked Choice Voting Resource Center, Reporting the Results of Ranked-Choice Voting Elections: Successes and Pitfalls Across Forty-Four RCV Juridictions (Aug. 2022), https://www.rcvresources.org/blog-post/reporting-the-results-of-ranked-choice-voting-

Election results

Jumaane D. Williams won the DEM Public Advocate Citywide Primary with 572,762 of the votes in the first round. Jumaane D. Williams received over 70.0% of the vote in round 1.

How the votes were counted	- round by ro	ound
	Round 1	
Eliminated in this round		
Elected	Jumaane D. Willian	ms*
Votes in this round	# votes	% of vote
Jumaane D. Williams	572,762	70.0%
Anthony L. Herbert	173,858	21.2%
Theo Bruce Chino Tavarez	64,053	7.8%
Write-ins	8,049	1.0%
Inactive ballots		

Results from the New York City 2021 Citywide Democratic Primary for Public Advocate.41

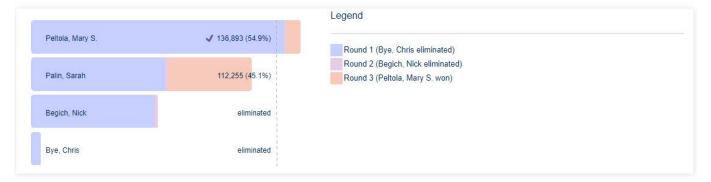
If all RCV contests in a given election are decided in the first round, administrators may not need to run rounds of counting and, therefore, may not need to centralize CVR data.

Round-by-round results are required to determine the winners in contests where no winner emerges based on first choices. Even though many RCV elections are decided in the first round, any RCV election could go to rounds of counting, so election administrators must be prepared, before Election Day, to produce round-by-round results in order to run any RCV election. The following discussion is focused on procedures necessary to produce round-byround results but will also discuss first-choice results when relevant.

U.S. Representative

Tuesday, November 8, 2022

The results of a ranked-choice voting election. | Download Raw Summary Data | Source



Sample image from RCVis.com showing the November 2022 election results for the Alaska House of Representatives. 42

⁴² RCVis.com, U.S. Representative, https://rcvis.com/v/us-representative-2 (last visited Mar. 10, 2023).



^{*}The winning candidate is the candidate who has over 50% of the vote in round 1.

⁴¹ Board of Elections in the City of New York, 2021 Primary Official Ranked Choice Rounds - DEM Public Advocate Citywide (July 20, 2021), https://www.vote.nyc/sites/default/files/pdf/election_results/2021/20210622Primary%20Election/rcv/DEM%20Public%20Advocate%20 Citywide.pdf.

CENTRALIZATION OPTIONS FOR RCV

Determining the results of an RCV contest requires the centralization of digital election results from the entire contest, whether in a district in a city election or from all counties in a statewide election. After all digital results are centralized and uploaded to the jurisdiction's election management software, that software can be used to produce round-by-round results based on the CVR. CVRs are digital records of all rankings on each ballot cast on a voting machine.43

The CVR files from the ES&S EVS export system are in a Microsoft Excel Worksheet format. The sample below displays the following records:

- First Vote Column Index the first vote appears in column D under "Cand Choice 1"
- First Vote Row Index the first cast vote record is in Row 2 in this example
- ID Column Index in this sample, Column A contains all Cast Vote Record IDs, making it the ID Column
- Precinct Column Index displayed in Column B as the precinct Name/#
- Ballot Style Column C is the Name/# of the ballot style
- Cand Choice Columns D through H are the candidate choices selected by the voter

	A	В	C	D	E	F
1	Cast Vote Record	Precinct	Ballot Style	Rep. to Congress 1st Choice District =	Rep. to Congress 2nd Choice District	Rep. to Congress 3rd Choice District
2	1	Fayette	CAN Ballot Style 130	REP Poliquin, Bruce	REP Poliquin, Bruce	REP Poliquin, Bruce
3	2	Fayette	CAN Ballot Style 130	REP Poliquin, Bruce	undervote	undervote
4	3	Fayette	CAN Ballot Style 130	DEM Golden, Jared F.	Bond, Tiffany L.	undervote
5	4	Fayette	CAN Ballot Style 130	REP Poliquin, Bruce	DEM Golden, Jared F.	Bond, Tiffany L.
6	6	Fayette	CAN Ballot Style 130	REP Poliquin, Bruce	undervote	undervote
7	8	Fayette	CAN Ballot Style 130	Hoar, William R.S.	REP Poliquin, Bruce	Bond, Tiffany L.
8	10	Fayette	CAN Ballot Style 130	undervote	undervote	undervote
9	15	Fayette	CAN Ballot Style 130	DEM Golden, Jared F.	Bond, Tiffany L.	Hoar, William R.S.
10	17	Fayette	CAN Ballot Style 130	REP Poliquin, Bruce	undervote	undervote
11	19	Fayette	CAN Ballot Style 130	REP Poliguin, Bruce	Hoar, William R.S.	Bond, Tiffany L.

Example cast vote record from Maine's 2nd Congressional District, 2018.44

Election officials can create CVRs at any time - throughout the unofficial reporting process or when producing official results. Centralizing election data to create CVRs requires either physical or digital transportation. Physical transportation means driving or flying flash drives holding election data from polling places to a central location, such as a county elections office, where CVR data can be produced using election management software. Digital transportation will likely take the form of uploading election data using a secure file transfer protocol (FTP), where it can be accessed by authorized individuals at a central counting location.⁴⁵

⁴⁵ Wisconsin Elections Commission, FAQs on Election Night Results Transmission, https://elections.wi.gov/elections/voting-equipment-wisconsin/ election-results-transmission#230548828-2732736158 (last visited Mar. 22, 2023).



⁴³ Administrators may also need to turn paper ballots that have not yet been scanned by voting systems into CVR data. This depends on local practice, such as whether any cities or counties hand count their elections. Jurisdictions may choose to create CVRs locally - at city or county offices - or may centralize paper ballots to the state, which can scan in ballots.

⁴⁴ Maine Secretary of State, November 6, 2018 - General Election - Ranked-choice office, https://www.maine.gov/sos/cec/elec/results/ results 18.html#Nov6 (last visited Mar. 23, 2023).

Physical and digital transportation have differing benefits and drawbacks. In general, physical transportation means round-by-round results will be somewhat slower to release. Driving or flying flash drives from polling places to a central location will take anywhere from minutes to hours, depending on the size of the jurisdiction holding an RCV election. Digital transportation will be much faster, taking seconds or minutes to upload election files to secure FTP sites. Election administrators already rely on physical transportation to distribute their voting systems to polling places and to return those voting systems to secure warehouses where voting systems are stored between elections. This means the policies and procedures already in place for the transportation of voting systems should be easily adapted to centralize election data.

HAND-COUNT BALLOTS AND RANKED CHOICE VOTING

Some cities and counties in the United States still hand count their elections. Hand counting an RCV election is possible. As with any election, however, the more ballots there are, the harder it will become to hand count. If a city or county that hand counts their elections is located in a state running a statewide RCV election, the ballots from that city or county will need to be digitized in order to produce RCV results. There are four ways to handle this:

- Create a CVR by hand based on the ballots cast in the jurisdiction;
- Provide scanning machines to hand-count jurisdictions;
- Send ballots over to a neighboring city or county with scanning systems to scan in hand-count ballots; or
- Centralize ballots to the state to scan in hand-count ballots.

Each option has benefits and drawbacks.

Option 1 keeps things low-tech but introduces the greatest potential for human error in creating the CVR. Option 2 keeps ballots in the hand-count jurisdiction but may be a political nonstarter in a jurisdiction that hand counts ballots. It may also be too expensive to purchase voting systems in smaller jurisdictions. Option 3 will create RCV data guickly but requires that the jurisdiction relinquish some control over its ballots. Option 4 will also create data quickly; it may take more time than option 3 to centralize ballots to the state, however, and still requires that localities relinquish control of their ballots. The drawbacks of Options 3 and 4 can be mitigated by using strict chain of custody protocols and ensuring that a representative from the hand-count county is present for all stages of the count. Option 4 is currently used to scan in hand-count ballots in both Alaska and Maine. 46 More detailed information and analysis are available in RCVRC's How to Produce RCV Results policy brief.47

⁴⁷ Ranked Choice Voting Resource Center, supra note 38.



⁴⁶ Alaska Division of Elections, Alaska's Ballot Counting System, https://www.elections.alaska.gov/Core/alaskavotecountingsystems.php (last visited Mar. 8, 2023); 29-250-535 Me. Code R. § 5.

Digital transportation, on the other hand, may be less readily available to election administrators. Because of the sensitive nature of election data, setting up a secure digital transportation network is paramount to ensuring elections remain trustworthy. Some jurisdictions already rely on FTP networks for sending and receiving data, such as CVRs, while others rely entirely on physical transportation networks for transmitting election data.⁴⁸ Digital transportation may also receive more scrutiny and be perceived as less secure than physical transportation.

Election administrators need to consider what resources they already have available, what work is necessary to adapt pre-existing processes to RCV data centralization, and any resources necessary to implement novel approaches to determine the most realistic method for centralizing election results. A specific analysis of the conditions in Maryland is outside the scope of this assessment, but additional research can be conducted upon request. This analysis will now consider the processes available for actually producing RCV results.

PRODUCING RCV RESULTS

As election data begins to arrive from precincts, counting centers, and other counting locations, administrators will upload that data to their election management software. Administrators will then process the round-by-round count and produce RCV results using their RCV tabulation software. When using RCV tabulation software, producing round-by-round counts takes only seconds or minutes. Election administrators can run that round-by-round count as ballots come in, while complying with any legal timelines governing when they may produce election results.

Producing the round-by-round count requires administrators to have RCV tabulation software compatible with the state's RCV counting rules and the data coming out of their voting systems. Maryland has voting systems from a single vendor, ES&S, which makes running the round-by-round count simpler than if they had systems from multiple vendors. Either ES&S's ExpressRunoff software or RCVRC's RCTab could be used to run the round-by-round count on those CVRs.⁴⁹ The tabulator is open source and available for free from RCVRC.⁵⁰

FIRST-CHOICE RESULTS

Before round-by-round results are produced, first-choice totals can be reported as unofficial results. Firstchoice totals are simple to produce: results tapes from voting equipment can print out first-choice totals in RCV elections, just as they print out vote totals in non-RCV elections.⁵¹ As with non-RCV elections, those results can be reported back to the appropriate elections office, which can combine totals and publish just first-choice totals. First-choice results can only serve as temporary unofficial results, however. RCV results will ultimately require round-by-round results to determine final winners.

Consider Maine's results reporting practices. Maine communicates before its RCV elections to voters, press, and candidates that election night results include only the first round and that round-by-round results are produced about a week after the election.⁵² A similar, transparent process could be adopted in Maryland to ensure all stakeholders know when election results are released.

⁵² Press Release, Matthew Dunlap, Maine Secretary of State, Ranked Choice Voting Tabulations (Nov. 1, 2018), https://www.maine.gov/sos/ news/2018/rcvtabulation.html; Equal Democracy Project & Ranked Choice Voting Resource Center, supra note 39.



⁴⁸ Interview with Denver, Colorado, election administrators.

⁴⁹ Ranked Choice Voting Resource Center, RCTab, https://www.rcvresources.org/rctab (last visited Aug. 9, 2023).

⁵⁰ The tabulator is compatible with Dominion, ES&S, Hart, and Unisyn data.

⁵¹ See Election Assistance Commission, supra note 31.

WHEN TO PRODUCE RCV RESULTS

Deciding when to produce round-by-round RCV results depends on a number of factors election administrators may want to consider. This list provides the primary considerations RCVRC has heard from election officials. Best practice is to produce round-by-round RCV results as ballots come in, with updates provided each time ballot totals for all contests are provided. This is discussed in greater detail in RCVRC's and FairVote's Results Reporting Best Practices document, as well as RCVRC's How to Produce RCV Results policy brief.53

Size of the state (physical)

This is most relevant when considering physical centralization.

Size of the state (population)

» This impacts the number of ballots to count.

Centralization method

Physical transportation makes it more cumbersome to repeatedly centralize CVR data as more ballots are counted; digital transportation is much more efficient for rapidly updating CVR data.

Length of time a jurisdiction has used RCV

This will impact how candidates react to being eliminated in unofficial results and the public's comfort with how reported results shift as more ballots get counted.

Discretion of the election administrator

Determined by any results production timelines set out in law as well as that administrator's comfort level with producing and explaining RCV results

Share of ballots ready to be processed according to RCV rules/share of ballots available on CVRs at RCV counting location

Administrators may want to wait to run the round-by-round count until some share of ballots are counted and included in CVR data (whether that means all ballots or a substantial portion of ballots, like 80%).

Post-Election-Day ballot counting processes

- Ballot receipt deadlines
- Ballot cure deadlines
- Ballot counting timelines

Post-Election-Day ballot counting processes impact or are impacted by all aspects of the process - the share of ballots counted, the state's population, the centralization method, the physical size of the state, the length of time a jurisdiction has used RCV, and the election administrator's power of discretion. Longer ballot counting timelines mean more ballots will be counted after Election Day; physical transportation will make it more cumbersome to update CVR data as ballots are counted after Election Day; election administrator comfort with producing unofficial RCV results when many ballots are counted after Election Day will be impacted by the voting public's familiarity with RCV and the administrator's comfort with RCV.

DISPLAYING RCV RESULTS

After round-by-round results are produced, displaying them in an easy-to-understand format is fundamental to ensuring voters understand and accept the results. The Center for Civic Design (CCD) has produced a report describing best practices for results reporting.⁵⁴ RCVis implements best practices for displaying round-by-round results and is free to use. It is compatible with results data from ES&S, Dominion, and RCTab RCV contests.55

⁵⁵ RCVis.com, http://www.RCVis.com (last visited Mar. 3, 2023).



⁵³ FairVote & Ranked Choice Voting Resource Center, *supra* note 38; Ranked Choice Voting Resource Center, *supra* note 38.

⁵⁴ Whitney Quesenbery and Taapsi Ramchandani, Best Practices for Ranked Choice Voting Ballots and Other Materials, Center for Civic Design (Feb. 28, 2017), https://drive.google.com/file/d/1T_u5h4RZ1rTu6_OBXnxBVDSrndsGF0V9/view; Ranked Choice Voting Resource Center, Reports, https://www.rcvresources.org/reports (last visited Mar. 8, 2023).

6 RCV Audits

Election officials conduct post-election audits to ensure votes are recorded and tallied as cast and to help ensure public confidence in elections.⁵⁶ Two primary types of audits exist: conventional audits and risk-limiting audits (RLAs). Ranked choice voting (RCV) elections in the United States are regularly subject to conventional audits.⁵⁷ Conventional or traditional audits have two major steps:

Election administrators randomly select voting machines used in a given election; then, Election administrators compare the paper record of ballots from the machines being audited to the digital results produced by those voting machines.⁵⁸

Single-winner and proportional RCV races⁵⁹ in the Bay Area and Minneapolis are regularly audited using conventional audit procedures. For example, Minneapolis randomly selects two RCV contests to audit - one singlewinner and one proportional. The city then selects one precinct from each contest and manually reviews every ballot in that precinct. City of Minneapolis staff compare the total number of rankings each candidate received in that precinct to digital records from the scanners used in each precinct. If these totals match, the audit is complete. If vote totals differ, the audit will expand.⁶⁰ Bay Area audits follow similar procedures.⁶¹

RLAs are the gold standard of post-election tabulation audits. They review a randomized sample of ballots to provide strong evidence that the election outcome is correct. RLAs are the most efficient type of audit and can be implemented in single-winner RCV contests. 62 RLAs are reliable and efficient, but they are uncommon in the United States and have rarely been used in RCV elections. Additional RLAs of RCV need to be conducted to firmly establish RCV RLA practices and tools and to ease RCV RLA adoption across the United States.⁶³

7 RCV Recounts

Recounts are an important part of the election process, conducted to check the results of close elections or when a losing candidate requests a recount. Recounts tend to happen in small, local elections that fall under the radar. Statewide recounts, while relatively rare, are high-profile events that attract scrutiny from across the country. When conducted successfully and transparently, recounts can build trust in elections regardless of their outcome.

⁶² Chris Hughes, Post-Election Audits and Ranked-Choice Voting, Ranked Choice Voting Resource Center 4 (Aug. 2022), https://www.rcvresources.org/blog-post/post-election-audits-and-ranked-choice-voting.



⁵⁶ Verified Voting, The Verifier – Post-Election Audits – November 2022, https://verifiedvoting.org/verifier/#mode/navigate/map/auditlaw/ mapType/audit/year/2022 (last visited Mar. 3, 2023).

⁵⁷ Ranked Choice Voting Resource Center, Auditing Ranked Choice Voting (Mar. 29, 2018), https://www.rcvresources.org/auditing-ranked-

⁵⁸ Audit laws may be written to audit precincts or to audit machines. Either way, voting machines are the things being reviewed – in a precinctbased law, the voting machines used in that precinct are audited. In a voting machine law, a random assortment of machines from across the election jurisdiction (city, county, or state) are audited instead of a specific precinct.

⁵⁹ Ranked Choice Voting Resource Center, Types of RCV, https://www.rcvresources.org/types-of-rcv (last visited Mar. 7, 2023).

⁶⁰ Ranked Choice Voting Resource Center, *supra* note 57.

Ranked choice voting (RCV) changes the way votes get counted and so changes the way recounts are conducted. Recount policy varies widely by state. To capture the many ways RCV elections have been recounted across the United States, the Ranked Choice Voting Resource Center produced its Recounts of Ranked Choice Voting Elections report.⁶⁴ The report includes guiding guestions to help election administrators and other interested parties identify effective ways to adapt their pre-existing recount policies to RCV elections.

8 Voting Systems in Maryland

Voting systems are the combination of hardware (scanners, direct-recording electronic units (DREs), and/or ballot marking devices) and software used to conduct an election. Election administrators use voting systems to design ballots, set up the rules of an election, cast ballots, capture ballots, count election results, and produce results.⁶⁵ Voting systems are a fundamental component of running elections in the United States. The ability of those systems to run a ranked choice voting (RCV) election depends on the age of the equipment in use, the software installed on the voting equipment, and the vendor providing the equipment.⁶⁶

Maryland has 24 counties.⁶⁷ Of those, all 24 counties have voting systems capable of conducting an RCV election, or what we call RCV capable.⁶⁸ Those counties contain 100% of registered voters. All voting equipment data used here was obtained from Verified Voting's Verifier.⁶⁹ The data on that site is updated continuously. The analysis in this section uses the 2024 Verifier data as of September 1, 2023. Voter registration data for this assessment was published on July 1, 2023, by the State Board of Elections. 70 The data appears to be updated regularly, so exact figures may change.

Voting system assessment

RCV Capable

100% of jurisdictions have RCV-capable equipment

The State of Maryland requires certification of voting systems before use. The State Board of Elections, consisting of 5 members, certifies equipment for use in Maryland after that equipment is tested by a federally certified lab.⁷¹ Once the State Board has certified the equipment, it may be used in elections in Maryland. Maryland's requirement that

⁷¹ Md. Code, Elec. Law §§ 2-101, 9-102.



⁶⁴ Chris Hughes and Ryan Kirby, Recounts of Ranked Choice Voting Elections, Ranked Choice Voting Resource Center (Aug. 2022), https://www. rcvresources.org/blog-post/recounts-of-ranked-choice-voting-elections.

⁶⁵ U.S. Election Assistance Commission, Voluntary Voting System Guidelines, https://www.eac.gov/voting-equipment/voluntary-voting-systemguidelines (last visited Mar. 3, 2023).

⁶⁶ Verified Voting, The Verifier – First Year in Use – November 2022, https://verifiedvoting.org/verifier/#mode/navigate/map/fieldedEquip/ mapType/ppEquip/year/2022 (last visited Mar. 3, 2023).

⁶⁷ Maryland State Archives, Local Government - Counties (Mar. 11, 2022), https://msa.maryland.gov/msa/mdmanual/01glance/html/county. html#counties.

⁶⁸ Ranked Choice Voting Resource Center, 2023 Maryland RCV Maps Data (last updated Sept. 1, 2023), https://docs.google.com/spreadsheets/ d/1Mxq9qtmvH5n4sUwGOxr0ccT8-x1rGZmKPmfAgf26eQ8/edit?usp=sharing.

⁶⁹ Verified Voting, Verifier Search - Maryland / 2024, https://verifiedvoting.org/verifier/#mode/search/year/2024/state/24 (last visited Sept. 1,

⁷⁰ Maryland State Board of Elections, Voter Registration Statistics & Data (July 1, 2023), https://elections.maryland.gov/voter_registration/stats.html.

voting systems be tested by a federally certified lab is the third-highest level of scrutiny to which voting equipment can be subjected. It can take a few months to test and certify a voting system under this requirement.⁷² It is unclear if the Secretary of State's office has specific requirements it is looking for if a system claims RCV capability.

Four major vendors of election equipment in the United States have varying levels of compatibility with RCV: Dominion Voting Systems, Election Systems and Software (ES&S), Hart InterCivic, and Unisyn Voting Systems.⁷³ These vendors include RCV compatibility in their systems through general software updates and through RCVspecific counting software add-ons. Four other vendors of election equipment in the United States do not yet have RCV capability available on their systems: Clear Ballot, Microvote, Smartmatic, and Voting Works. 74 While these assessments categorize voting systems by their RCV compatibility, access to any RCV features may require software updates. Voting system software versions indicate whether a voting system has RCV compatibility. That level of detail is not included in this assessment, but it can be researched and included in a more detailed assessment upon request. More information on how we categorized states and voting equipment is available in the How We Score States Guide.75

It can be possible to have RCV elections counted round-by-round by a voting system vendor's equipment, which is the most cost-effective solution. Other times, voting systems cannot run that sort of count internally, but the machines can capture RCV ballots. In that case, the data from those ballots need to be exported and run through third-party software capable of running the round-by-round count. The following analysis discusses options for running the RCV count in Maryland using the state's current voting systems.

⁷⁵ Ranked Choice Voting Resource Center, supra note 2.



⁷² Once a vendor has had a system tested by a lab, it receives a report outlining the results of that test. That report can then be submitted to the EAC if the vendor is looking for EAC certification (the highest level of testing/certification for voting systems in the U.S.), or a vendor can submit that report to a given state's certification authority (typically through the Secretary of State's office). The certification authority then reviews the testing report and may order additional in-state testing. Following the review and any additional testing, the authority may certify or decline to certify that voting system for use in that state. If substantial changes are made to a system after testing, it will need to be retested and resubmitted for certification.

⁷³ Ranked Choice Voting Resource Center, Major Voting Equipment Vendors' Ranked Choice Voting Capabilities v.3.0 (Mar. 2023), https://drive. google.com/file/d/1DzHqkabZV1Tdo12DGam2DQikfTjYezk2/view.

COUNTIES WITH RCV-CAPABLE VOTING SYSTEMS

All 24 counties use RCV-capable ES&S equipment. Those counties use DS200, DS850, and/or ExpressVote equipment. Single-winner and proportional RCV ballots can be designed, scanned, and captured in this system. While this data can be captured by these systems, ES&S is currently limited to tabulating the RCV round-by-round count for single-winner RCV. This feature is available through its separate tabulation module, ExpressRunoff, provided a jurisdiction has the necessary software upgrades. For proportional RCV, cast vote records (CVRs) will need to be exported and run through third-party tabulation software to determine the winners in an RCV race. RCVRC's RCTab software can run the round-by-round count on CVRs exported from this hardware as-is for RCV results for both singlewinner and proportional RCV.76 ES&S equipment can produce a ballot with both RCV and non-RCV contests. Both grid-style and column-style RCV ballots can be designed within this system. The number of rankings vary depending on the ballot layout (portrait or landscape) and the number of contests on the page. A table of these counties is available in the appendix.

REMOTE BALLOT MARKING SYSTEMS

The State Board of Elections' Online Ballot Marking Tool is used by all 24 counties in Maryland for remote ballot marking. Remote ballot marking systems are an emerging technology that can digitally deliver ballots to voters and permit voters to print and mark their ballots at home. Some of these systems permit voters to mark their ballots on their computers or phones. The extent to which systems are used by voters is controlled by state law. We do not currently know the RCV capabilities of this system.

9 Conclusion

100% of Maryland counties have modern, RCV-capable voting equipment, which consists of 100% of registered voters in the state. While all hardware in Maryland is RCV capable, voting systems in Maryland may still need software upgrades to gain full ranked choice voting (RCV) capability. Because all Maryland counties have RCVcapable equipment, they fall in our RCV Capable category, meaning their voting system hardware is or is nearly 100% ready for RCV.

If interested in a more detailed assessment of your state, please reach out to the Ranked Choice Voting Resource Center (info@rcvresources.org or 1-833-VOTE-RCV), and we can work with you on producing such an assessment.

⁷⁶ Ranked Choice Voting Resource Center, *supra* note 47.





Counties with RCV-capable voting systems"

County Name	Vendor	Ballot Scanner	Ballot Marking Device (BMD)	Total Registered Voters	Percent of State
Allegany	ES&S	DS200	ExpressVote	46,457	1.05%
Anne Arundel	ES&S	DS200 & DS850	ExpressVote	442,065	9.95%
Baltimore City	ES&S	DS200 & DS850	ExpressVote	417,778	9.40%
Baltimore County	ES&S	DS200 & DS850	ExpressVote	599,755	13.50%
Calvert	ES&S	DS200	ExpressVote	73,890	1.66%
Caroline	ES&S	DS200	ExpressVote	23,192	0.52%
Carroll	ES&S	DS200	ExpressVote	135,331	3.05%
Cecil	ES&S	DS200	ExpressVote	76,668	1.73%
Charles	ES&S	DS200	ExpressVote	131,514	2.96%
Dorchester	ES&S	DS200	ExpressVote	24,058	0.54%
Frederick	ES&S	DS200 & DS850	ExpressVote	212,104	4.77%
Garrett	ES&S	DS200	ExpressVote	21,678	0.49%
Harford	ES&S	DS200 & DS850	ExpressVote	203,490	4.58%
Howard	ES&S	DS200 & DS850	ExpressVote	246,408	5.55%
Kent	ES&S	DS200	ExpressVote	14,707	0.33%
Montgomery	ES&S	DS200 & DS850	ExpressVote	740,281	16.66%
Prince George's	ES&S	DS200 & DS850	ExpressVote	639,305	14.39%
Queen Anne's	ES&S	DS200	ExpressVote	42,023	0.95%
St. Mary's	ES&S	DS200	ExpressVote	82,511	1.86%
Somerset	ES&S	DS200	ExpressVote	14,687	0.33%
Talbot	ES&S	DS200	ExpressVote	30,136	0.68%
Washington	ES&S	DS200	ExpressVote	110,009	2.48%
			RCV Capable Total:	4,443,506	100.00%
			Statewide Registered Voters:	4,443,506	Last Updated: September 2023

⁷⁷ The State Board of Elections' Online Ballot Marking Tool is used by all 24 counties with RCV-capable voting systems.



Grid Ballots

BEST PRACTICES GRID BALLOT

More usability resources are available on this page: https://www.rcvresources.org/reports.

Only ballot pages with RCV contests are shown for the vendor ballots below. Full ballots are available here:

https://drive.google.com/drive/folders/1mvlHfptmN4lgHVotdLLb9fMJ778ihbgB.



Franklin County, California General Election Tuesday, November 6, 2012

2/2

Instructions for Ranked Choice Voting

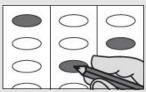
Making selections

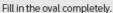
Rank candidates in the order of your choice.

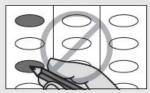
You may rank as many or as few candidates as you wish.

Fill in the oval...

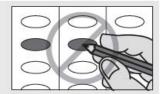
- · In the 1st column for your first 1st choice.
- In the 2nd column for your 2nd choice.
- In the 3rd column for your 3rd choice, and so on







No more than 1 oval in a column.

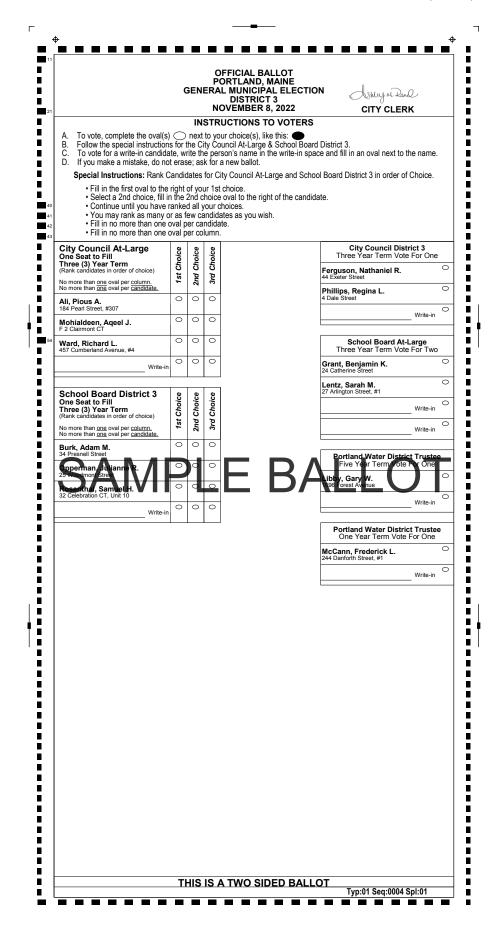


No more than 1 oval for a candidate.

Mayor										
Rank up to 10 candidates. Mark no more than 1 oval in each column.	1st choice	Second choice	3rd choice	4th choice	th choice	eth choice	4th choice	8th choice	Ninth choice	Tenth choice
Frederick Sharp Orange Party	0	0	0	0	0	0	0	0	0	0
Luis Garcia Orange Party	0	0	0	0	0	0	0	0	0	0
Charles Layne Yellow Party	0	0	0	0	0	0	0	0	0	0
Andrew Kowalski Yellow Party	0	0	0	0	0	0	0	0	0	0
Alex Wallace Purple Party	0	0	0	0	0	0	0	0	0	0
Eric Savoy Purple Party	0	0	0	0	0	0	0	0	0	0
Barbara Williams Tan Party	0	0	0	0	0	0	0	0	0	0
Lillian Cohen Lime Party	0	0	0	0	0	0	0	0	0	0
Ann Windsock Independent	0	0	0	0	0	0	0	0	0	0
Markos Miller Silver Party	0	0	0	0	0	0	0	0	0	0
Elizabeth Harp	0	0	0	0	0	0	0	0	0	0



ES&S GRID BALLOT WITH WRITE-INS - PORTLAND, ME (2022)





ES&S GRID BALLOT WITH WRITE-INS - NEW YORK CITY, NY (2021, PG. 1)

Official Ballot for the Democratic Primary Election City of New York – June 22, 19 (1997). See The Country of New York – June 22, 2007. INSTRUCTIONS Rank candidates in the order of your choice. Mark the oval in the "1st choice" of the Country of	in and in any ered all per ered ered ered ered ered ered ered	Par Dei Ciu	mócrat mócrat dad de de Jun STRUC sifique su prefe a columbra de columbra de la columbra del columbra de la columbra del columbra de la columbra de la columbra de la columbra de la columbra del columb	a Nuevas o del 2 CCION los canierencia. In ma de la comma del co	a York- 021 ES diddatos Marqui 1a opc mimera a n la coli c candida candida candida candida le leta, n andidal le hará das, pe n o marqui le hará n o marqui n o mar	Elección Primaria Condado de Nueva York en orden en orden en el óvalo for para opodon, for para opodon, for para opodon tala to de su tato d	2021年 選第、目 的至人數記能等如他 人一標中 候格的,最標進果用 進選記的 選旁姓德多記行德的	行擇贿第 人邊名可或一排超畸排。圓二 進標。以少個名選剛 指。圓二 進標。以少個名選剛	目器單 非一规器受引售器运名假出逻通,指的效益的迅速通过,指的效益的现在,并可以有效,并可以有效,并可以有效,并可以有效,并可以有效,并可以有效,并可以可以可以可以可以可以可以可以可以可以可以可以可以	在具体的设备经验, 是那个人是一个人,我们是一个人们的特所 如换 地名美国格特 人名英国格特 人名英国格特	。 楚頭投條候選計記 您.一 寫地就選選選擇算號 級份
Mayor						Public Advocate					
Rank up to 5 choices Mark no more than 1 oval in each column Alcalde Clasifique hasta 5 opciones Marque no más de un óvalo en cada columna 市長 最多貨職身怎選擇 每項股資用值便保修把一個時間	pst Choice 海森 Opción 25t	pus Choice	s Choice 爆構 Dopción	群 Choice	th Opción 海森	Rank up to 4 choices Mark no more than 1 oval in each column Defensor Público Clasifique hasta 4 opciones Marque no más de un óvalo en cada columna 公益雜護人 基系细醇之媒体 李明成現中在聚株之一個韓國	tst Choice 機構 Opción	b Choice	S Choice 選擇 D Opción	幹數 Choice 中 Opción	
Aaron S. Foldenauer 方棟豪	0	0	0	0	0	Anthony L. Herbert 安東尼 L. 賀伯特	0	0	0	0	
Dianne Morales 模泰安	0	0	0	0	0	Theo Bruce Chino Tavarez 西歐千野	0	0	0	0	
Scott M. Stringer 斯靜格	0	0	0	0	0	Jumaane D. Williams 祖曼尼 D. 威廉斯	0	0	0	0	
Raymond J. McGuire 雷蒙 J. 麥圭爾	0	0	0	0	0	Write-in candidato por escrito 寫入未列名候選人	0	0	0	0	
Maya D. Wiley 瑪雅 D. 威利	0	0	0	0	0	and a color from operation					
Paperboy Love Prince 佩珀柏依 樂夫 普林斯	0	0	0	0	0	Comptroller Rank up to 5 choices Mark no more than 1 oval in each column					
Art Chang 張哲熙	0	0	0	0	0	Contralor Clasifique hasta 5 opciones Marque no más de un óvalo en cada columna	海海		海海	強性	海海
Kathryn A. Garcia 凱瑟琳 A. 貫西亞	0	0	0	0	0	主計長 最多5個排名選擇	Choice Opción	Choice Opción	Choice Opción	Choice Opción	Choice Opción
Eric L. Adams 艾利克 L. 亞當斯	0	0	0	0	0	每項就逐項目後原標記一個椭圆 Michelle Caruso-Cabrera	1st	2nd	3rd	4th	5th
Isaac Wright Jr. 艾薩克 賴特 Jr.	0	0	0	0	0	蜜雪兒 卡魯索-凱布瑞拉 Zach Iscol	0	0	0	0	0
Shaun Donovan 尚恩 唐諾文	0	0	0	0	0	札克 艾斯科 Terri Liftin	0	0	0	0	0
Andrew Yang 楊安澤	0	0	0	0	0	泰莉 利夫騰 Alex Pan	0	0	0	0	0
Joycelyn Taylor 喬伊絲琳 泰勒	0	0	0	0	0	潘佳仁 Brad Lander	0	0	0	0	0
Write-in candidato por escrito 寫入未列名候選人	0	0	0	0	0	布瑞德 藍德 Corey D. Johnson	0	0	0	0	0
向八木川石铁垣八						村瑞 D. 強生 Reshma Patel	0	0	0	0	0
						蕊希瑪 帕特爾 David I. Weprin	0	0	0	0	0
						大衛 I. 魏普林 Brian A. Beniamin	0	0	0	0	0
						布莱恩 A. 班傑明 Kevin S. Parker	0	0	0	0	0
						凱文 S. 帕克 Write-in candidato por escrito 寫入未列名候選人	0	0	0	0	0



Г

OFFICIAL BALLOT FOR THE DEMOCRATIC PRIMARY ELECTION JUNE 22, 2021 CITY OF NEW YORK COUNTY OF NEW YORK Election District Information						Freder, Unane Morael Morael Morael Morael Morael Mogaliera Camio Rodray I. Peg-Scurent Megaliera Camio Petricia Arra Tatano Camani Jose Miguel Araujo Triffany Jownsord Gino A. Marmoratio John Wm. Zacone Commissioners of Elections Refer Assembly Deirtt	DEM ELE Style: 0110	Rec a	nemb both uerde mbos 投選」	sides e vota s lado	ir en
Borough President Rank up to 5 choices Mark no more than 1 oval in each column Presidente del Distrito Municipal Classifique hasta 5 opciones Marque no más de un óvalo en cada columna 區長 後多句明多選擇 學有後是項目復保釋之一個賴國 Guillermo A. Perez	Opción	O Choice 選棒 Opción	O Doción 選择	O the Operion with Operion on the Operion of the Operion on the Operion on the Operion of the O	O thoice 機構 Opción	Council Member Rank up to 5 choices Mark no more than 1 oval in each column Miembro del Concejo Clasifique hasta 5 opciones Marque no más de un óvalo en cada columna 市議員 基多点聯邦老選擇 专項规定項目往限權化一個時間 Aleta A. LaFargue	O Speción 機構	O Doción 爆棒	O psción 機構	O the Operion 機構 Operion	O 字 Choice 選擇 O pción
貴勒莫 A.裴瑞斯 Mark D. Levine	0	0	0	0	0	艾立達 A. 樂法格 Arthur Z. Schwartz	0	0	0	0	0
李文 Elizabeth R. Caputo 伊莉莎白 R. 卡普托	0	0	0	0	0	亞瑟 Z. 史瓦兹 Phelan D. Fitzpatrick 非蘭 D. 費茨派翠克	0	0	0	0	0
Brad M. Hoylman 霍曼	0	0	0	0	0	Marni Halasa 瑪爾妮 賀拉沙	0	0	0	0	0
Ben Kallos 班 凱洛斯	0	0	0	0	0	Leslie Boghosian Murphy 萊絲莉 波卡賢 默菲	0	0	0	0	0
Lindsey C. Boylan 琳賽 C. 柏伊蘭	0	0	0	0	0	Erik D. Bottcher 艾利克 D. 巴徹	0	0	0	0	0
Kimberly R. Watkins 金柏莉 R. 瓦肯斯 Write-in	0	0	0	0	0	Write-in candidato por escrito 寫入未列名候選人	0	0	0	0	0
andidato por escrito 寫入未列名候選人		E	3	3	r	nple					



SAMPLE GRID BALLOT WITH WRITE-INS - TAKOMA PARK, MD (2022 - WARD ONE)

Mayor	1st choice	2nd choice	3rd choice	4th choice
Alcalde	1a opción	2a opción	3a opción	4a opción
Seth Grimes	0	0	0	0
Talisha Searcy	0	0	0	0
Jarrett Smith	0	0	0	0
Write-in candidate/candidato autonominado	0	0	0	0
Council – Ward 1	1st choice	2nd choice	3rd choice	4th choice
	1st choice 1a opción	2nd choice 2a opción	3rd choice 3a opción	4th choice 4a opción
Council – Ward 1 Concejo – Distrito 1 Shana Fulcher				
Concejo – Distrito 1	1a opción	2a opción	3a opción	
Concejo – Distrito 1 Shana Fulcher	1a opción	2a opción	3a opción	4a opción



Column Ballots

BEST PRACTICES COLUMN BALLOT



Franklin County, California General Election Tuesday, November 6, 2012

2/2

Instructions for Ranked Choice Voting

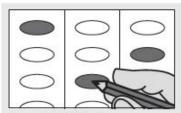
Making selections

Rank candidates in the order of your choice.

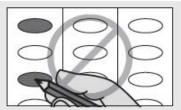
Mark at least one candidate for your vote to count.

Fill in the oval...

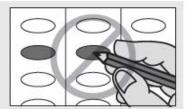
- · In the 1st column for your first 1st choice.
- In the 2nd column for your 2nd choice.
- · In the 3rd column for your 3rd choice.



Correct! All 3 choices must be different.



No more than one oval in a column.



Don't choose the same candidate more than once.

Mayor

- First Choice Fill in one oval
- Frederick Sharp Orange Party
- Luis Garcia Orange Party
- Alex Wallace Purple Party
- Eric Savoy Purple Party
- Barbara Williams Tan Party
- Lillian Cohen Lime Party
- Ann Windsock Independent
- Markos Miller Silver Party

- Second Choice Fill in one oval
- Frederick Sharp Orange Party
- Luis Garcia Orange Party
- Alex Wallace Purple Party
- Eric Savoy Purple Party
- Barbara Williams Tan Party
- Lillian Cohen Lime Party
- Ann Windsock Independent
- Markos Miller Silver Party

- Third Choice Fill in one oval
- Frederick Sharp Orange Party
- Luis Garcia Orange Party
- Alex Wallace Purple Party
- Eric Savoy Purple Party
- Barbara Williams Tan Party
- Lillian Cohen Lime Party
- Ann Windsock Independent
- Markos Miller Silver Party



ES&S COLUMN BALLOT WITH WRITE-INS - MINNEAPOLIS, MN (2022, PG. 1)

Joice candidates in the columns Jard Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjegerdes Famer-Labor Paul E. Johnson Equity in Motion Doug Nelson Doug Nelson Doug Nelson Socialist Workers Party Sheila Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Aliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Cirint Conner Democratic-Farmer-Labor Kevin "No Body" Ward Independent Cirint Conner Democratic-Farmer-Labor Cirint Conner Democratic-Farmer-Labor
ard Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjiegerdes Farmer Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Shella Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Clint Conner
ard Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjiegerdes Farmer Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Shella Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Clint Conner
ard Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjiegerdes Farmer Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Shella Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Clint Conner
ard Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjiegerdes Farmer Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Shella Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Clint Conner
2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjegerdes Farmer-Labor Paul E. Johnson Faulty in Molton Doug Nelson Socialist Workers Party Shelia Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Cint Conner
2nd choices. Select One Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjegerdes Farmer-Labor Paul E. Johnson Faulty in Molton Doug Nelson Socialist Workers Party Shelia Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Cint Conner
Bob "Again" Carney Jr Republican Laverne Turner Republican Troy Benjegerdes Farmer-Labor Paul E. Johnson Eaulty in Molton Doug Nelson Socialist Workers Party Shelia Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter-Labor Mike Winter-Labor Mike Winter-Labor Mike Winter-Labor Mike Winter-Labor Kevin "No Body" Ward Independent Cint Conner
republican Laverne Turner Republican Troy Benjegerdes Famer-Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Shella Nezhad Democratic-Famer-Labor AJ Awed Democratic-Famer-Labor Nate "Honey Badger" Atkins Libetarian Party Christopher W David Democratic-Famer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Citint Conner
Republican Troy Benjegerdes Farmer-Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Sheila Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Citint Conner
Farmer-Labor Paul E. Johnson Equity in Motion Doug Nelson Socialist Workers Party Sheila Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Ciint Conner
Equity in Motion Doug Nelson Socialist Workers Party Shelia Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Allance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Ciint Conner
Socialist Workers Party Shella Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Milke Winter-Labor Milke Winter-Labor Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Sheila Nezhad Democratic-Farmer-Labor AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
AJ Awed Democratic-Farmer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Democratic-ramer-Labor Nate "Honey Badger" Atkins Libertarian Party Christopher W David Democratic-Farmer-Labor Milke Winter-Labor Milke Winter-Labor Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Libertanian Party Christopher W David Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Democratic-Farmer-Labor Mike Winter Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Independence-Alliance Jacob Frey Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Democratic-Farmer-Labor Kevin "No Body" Ward Independent Clint Conner
Kevin "No Body" Ward Independent Clint Conner
Clint Conner
Mark Globus
Democratic-Farmer-Labor Perry, Jerrell
For The People
Grassroots-Legalize Cannabis
Kate Knuth Democratic-Farmer-Labor
write-in, if any
pice candidates in the columns
3rd Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One
David Wheeler
Democratic-Farmer-Labor Chris Parsons
Democratic-Farmer-Labor Alicia Gibson
Democratic-Farmer-Labor
Aisha Chughtai Democratic-Farmer-Labor
Ubah Nur Democratic-Farmer-Labor
Katie Jones Democratic-Farmer-Labor
Bemodratic-ramici-Labor
write-in, if any
pice candidates in the columns
3rd Choice, if any Must be DIFFERENT from your 1st and 2nd choices. Select One
Steve Brandt
Kevin Nikiforakis
Camana Cam 1100 Cancon
Pine Salica
Pine Salica
Pine Salica
Pine Salica write-in, if any
>



ES&S COLUMN BALLOT WITH WRITE-INS – MINNEAPOLIS, MN (2022, PG. 2)

ATTENTION VOTERS: See other side of ballot for voting instructions **City Offices** Park and Recreation Rank your first, second and third choice candidates in the columns below. Three to be elected. Commissioner At Large 2nd Choice, if any Must be DIFFERENT from your 1st 3rd Choice, if any Must be DIFFERENT from your 1st and 1st Choice 2 1 Select One Select One Alicia D. Smith O Alicia D. Smith O Alicia D. Smith Katherine Kelly Katherine Kelly Katherine Kelly Charles Rucker Charles Rucker Charles Rucker 0 Tom Olsen O Tom Olsen O Tom Olsen Londel French Londel French Londel French Mary McKelvey Mary McKelvey ○ Mary McKelvey Meg Forney Meg Forney O Meg Forney write-in, if any write-in, if any write-in, if any Park and Recreation Commissioner District Four Rank your first, second and third choice candidates in the columns below. One to be elected. 3rd Choice, if any
Must be DIFFERENT from your 1st and
2nd choices. 2nd Choice, if any Must be DIFFERENT from your 1st Select One Select One Select One Elizabeth Shaffer Elizabeth Shaffer O Elizabeth Shaffer Jono Cowgill O Jono Cowgill 0 Jono Cowgill 0 0 0 write-in, if any write-in, if any write-in, if any **City Questions** City Questions City Questions To vote for a question, fill in the oval next to the word "Yes" on that question. To vote against a question, fill in the oval next to the word "No" on that question. City Question 2 City Question 3 Authorizing City Council To Enact Rent Control Ordinance **Department of Public Safety** City Question 1 Shall the Minneapolis City Charter be amended to remove the Police Shall the Minneapolis City Charter be amended to authorize the City Council to regulate rents on private residential property in the City of Minneapolis, with the general nature of the amendments being indicated in the explanatory note below, which is made a part of this ballot? amended to remove the Police
Department and replace it with a
Department of Public Safety that
employs a comprehensive public
health approach to the delivery of
functions by the Department of Public
Safety, with those specific functions to
be determined by the Mayor and City
Council by ordinance; which will not
be subject to exclusive mayoral power Government Structure: Executive Mayor – Legislative Council Shall the Minneapolis City Charter be amended to adopt a change in its form of government to an Executive Mayor-Legislative Council structure to shift certain powers to the Mayor, consolidating administrative authority over all operating departments under the Mayor, and eliminating the Executive Committee? Council by ordinánce; which will not be subject to exclusive mayoral power over its establishment, maintenance, and command; and which could include licensed peace officers (police officers), if necessary, to fulfill its responsibilities for public safety, with the general nature of the amendments being briefly indicated in the explanatory note below, which is made a part of this ballot? Explanatory Note: O Yes This amendment would: ○ No Authorize the City Council to regulate rents on private residential property in the City of Minneapolis by ordinance. O Yes Provide that an ordinance regulating rents on private residential property could be enacted in two different and independent ways: O No a. The City Council may enact the ordinance. **Explanatory Note:** This amendment would create a Departmen of Public Safety combining public safety intendions through a comprehensive public health approach to be determined by the Mayor and Council. The department would be led by a Commissioner nominated by the Mayor and appointed by the Council. The Police Department, and its chief, would be removed from the City Charter. The Public Safety Department could include police officers but the minimum funding b. The City Council may refer the ordinance as a ballot question to be decided by the voters for approval at an election. If more than half of the votes cast on the ballot question are in favor of its adoption, the ordinance would take effect 30 days after the election or at every other time as election, or at such other time as provided in the ordinance. officers, but the minimum funding requirement would be eliminated. **MINNEAPOLIS W-10 P-11** Vote front and back of ballot



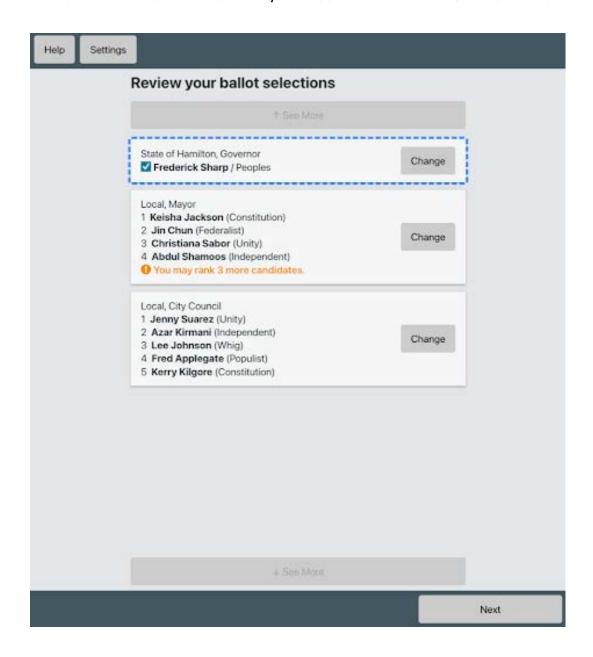
Touchscreen/Accessible Ballots

BEST PRACTICES TOUCHSCREEN/ACCESSIBLE BALLOT – WITH RANKINGS





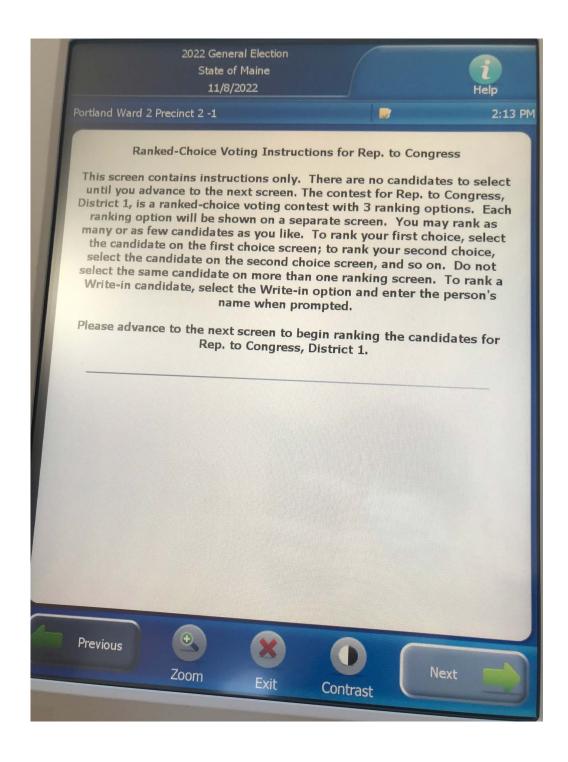
BEST PRACTICES TOUCHSCREEN/ACCESSIBLE BALLOT – REVIEW SCREEN





ES&S TOUCHSCREEN/ACCESSIBLE BALLOT

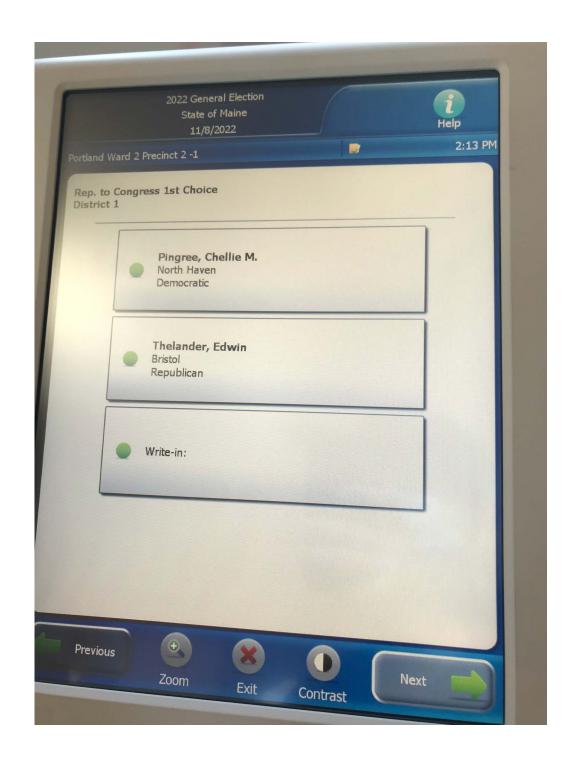
EXPRESSVOTE RCV INTERFACE INSTRUCTIONS – MAINE (2022)





ES&S TOUCHSCREEN/ACCESSIBLE BALLOT

EXPRESSVOTE RCV INTERFACE – MAINE (2022)





Best Practices Ballot Instructions

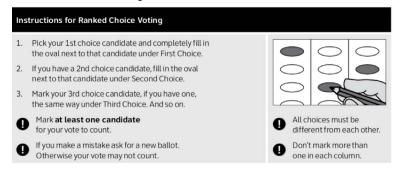
Choosing a ranked choice ballot design layout

Two styles of ballot instructions

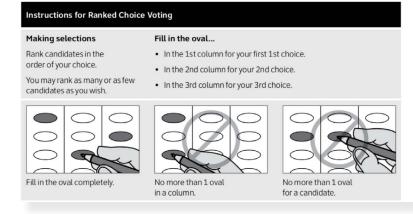
Both instruction styles had been used during the earlier studies. There were no differences in voter preferences. All liked having illustrations and clear instructions.

- Both filled the entire width of the ballot above the first ranked choice contest.
- Both work for either grid or 3-column ballot styles.

Instruction style A



Instruction style B





WE THANK YOU FOR YOUR ONGOING SUPPORT OF OUR ORGANIZATION.



RANKED CHOICE VOTING RESOURCE CENTER

a division of Election Administration Resource Center 833-VOTERCV (868-3728)

www.rcvresources.org

info@rcvresources.org