

Department of Legislative Services
 Maryland General Assembly
 2025 Session

FISCAL AND POLICY NOTE
 First Reader

House Bill 426 (Delegates Kaiser and Wilkins)
 Ways and Means

Election Law - Postelection Tabulation Audits - Risk-Limiting Audits

This bill requires the State Board of Elections (SBE), in collaboration with the local boards of elections, to conduct a specified risk-limiting audit following each statewide election. In addition, the bill (1) authorizes risk-limiting audits following special general elections; (2) modifies an automated software audit requirement so that it is instead an authorization; and (3) repeals an existing requirement to conduct a specified manual audit following each statewide general election. **The bill takes effect June 1, 2025.**

Fiscal Summary

State Effect: General fund expenditures increase by \$77,000 in FY 2026, \$72,000 in FY 2027, and \$51,000 in FY 2028 and future years. Revenues are not affected.

(in dollars)	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Revenues	\$0	\$0	\$0	\$0	\$0
GF Expenditure	77,000	72,000	51,000	51,000	51,000
Net Effect	(\$77,000)	(\$72,000)	(\$51,000)	(\$51,000)	(\$51,000)

Note: () = decrease; GF = general funds; FF = federal funds; SF = special funds; - = indeterminate increase; (-) = indeterminate decrease

Local Effect: Local government expenditures may increase annually beginning in FY 2026, as discussed below. **This bill may impose a mandate on a unit of local government.**

Small Business Effect: None.

Analysis

Bill Summary:

Risk-limiting Audit

The bill requires SBE, in collaboration with the local boards of elections, to audit the accuracy of the voting system's tabulation of votes by conducting a risk-limiting audit, following each statewide election, of (1) at least one statewide contest; (2) at least one local contest in each county; and (3) any other contests selected for audit by SBE. SBE must select the specific contests to be audited; however, a contest for an office for which the term begins in the month of December may not be selected for audit unless the election director for the county agrees to audit the contest. In addition, following a special general election, SBE, in collaboration with the local boards, may conduct a risk-limiting audit.

"Risk-limiting audit" is defined as a postelection audit procedure that employs statistical methods to ensure a large, predetermined minimum chance of requiring a full manual count of voter-verifiable paper records in an audited contest if a full manual count of the voter-verifiable paper records would find a different outcome than the outcome determined by the electronic count. "Risk limit" is defined as the small, predetermined maximum chance that a risk-limiting audit will not require a full manual count of vote-verifiable paper records in an audited contest if a full manual count of the voter-verifiable paper records would find a different outcome than the outcome determined by the electronic count. "Electronic count" is defined as the vote totals produced by the voting system, and "manual count" is defined as inspection of voter-verifiable paper records by hand and eye to obtain vote totals in a contest. "Local contest" is defined as a contest that (1) is not a statewide contest and (2) appears on the ballot in all or part of a county, including a contest to represent a district that includes more than one county.

A risk-limiting audit must (1) manually examine randomly chosen individual voter-verifiable paper records or batches of voter-verifiable paper records until the risk limit is met; (2) be completed before certification of the election results; and (3) be observable by the public to the maximum extent practicable.

If a risk-limiting audit finds that the election outcome determined by the electronic count is incorrect, the official result of the election must be altered to match the outcome determined by the risk-limiting audit. Within 10 days after the conclusion of the risk-limiting audit, SBE must post on its website a report that describes the audit process and the results of the audit.

SBE must adopt regulations to carry out the bill, which must include, with respect to risk-limiting audits, (1) criteria for determining the contests to be audited; (2) the risk limit; and (3) the audit method.

Modification of Automated Software Audit Requirement

The bill modifies a requirement that an automated software audit of all ballots cast in an election be conducted after each statewide election, so that the automated software audit is instead authorized, rather than required, to be conducted after a statewide election. The bill also (1) requires that the audit be conducted in collaboration with the local boards of elections and (2) defines “automated software audit” as an audit of electronic images of ballots cast in an election using software that is independent of the voting system.

Repeal of Existing Manual Audit and Audit Effect Provisions

The bill repeals an existing requirement enacted under Chapter 523 of 2018 that SBE conduct a specified manual audit of voter-verifiable paper records following each statewide general election and an authorization for SBE to complete a manual audit of voter-verifiable paper records following each statewide primary election in a manner prescribed by the board. Under the existing manual audit requirement, voter-verifiable paper records are inspected by hand and eye to obtain vote totals in a contest that are compared to the vote totals produced for that contest by the electronic voting system. The manual audit is conducted on at least 2% of precincts statewide and a number of early votes, absentee votes, and provisional votes equal to at least 1% of the statewide total in the previous comparable election for each of those categories of votes.

The bill also repeals a provision enacted under Chapter 523 that establishes that the manual audit and the automated software audit of the electronic images of ballots cast in each statewide election may not have any effect on the certified election results and must be used to improve the voting system and voting process for future elections.

Current Law:

Post-election Audit Requirements

Pursuant to Chapter 523, SBE is required to conduct an audit of the accuracy of the voting system’s tabulation of votes, following each statewide general election, by completing (1) an automated software audit of the electronic images of all ballots cast in the election and (2) a specified manual audit of voter-verifiable paper records. Following each statewide primary election, SBE (1) must complete an automated software audit of the

electronic images of all ballots cast in the election and (2) may complete a manual audit of voter-verifiable paper records in a manner prescribed by SBE.

Manual Audit (Post-general Election) and Reporting

The manual audit of voter-verifiable paper records required to be conducted following each statewide general election must be of (1) at least 2% of precincts statewide, including at least one randomly chosen precinct in each county and additional precincts selected by SBE and (2) a number of votes equal to at least 1% of the statewide total in the previous comparable general election of early votes, of absentee votes, and of provisional votes, including at least a minimum number of early votes, absentee votes, and provisional votes in each county, as prescribed by SBE. “Previous comparable general election” is defined as (1) in a presidential election year, the presidential election held four years earlier and (2) in a gubernatorial election year, the gubernatorial election held four years earlier.

The manual audit must be completed within 120 days after the general election. If the manual audit shows a discrepancy, SBE is authorized to expand the manual audit and take any other actions it considers necessary to resolve the discrepancy.

Within 14 days after the conclusion of the audit, SBE must post a report on its website that describes (1) the precincts and number of votes selected for the manual audit in each county and the manner in which the precincts and votes were selected; (2) the results of the manual audit; and (3) any discrepancy shown by the manual audit and how the discrepancy was resolved. SBE must allow for public observation of each part of the manual audit process to the extent practicable.

State Board of Elections Regulations and the Effect of the Audits

An audit pursuant to the provisions established under Chapter 523 may not have any effect on the certified election results and must be used to improve the voting system and voting process for future elections.

SBE is required to adopt regulations to implement the provisions established under Chapter 523.

State Fiscal Effect: General fund expenditures increase by \$77,000 in fiscal 2026, \$72,000 in fiscal 2027, and \$51,000 in fiscal 2028 and future years. This estimate reflects the following costs:

- **Software Costs – \$35,000 in Fiscal 2026** – Software is expected to be needed to coordinate the exchange of audit data between the State and local boards of elections, organize data, and make calculations necessary for the audit. Software

that originated from the development of risk-limiting audit software in Colorado, but that has been adapted for use by other states, is available as a hosted software-as-a-service, for a fee. Based on past available costs for the software, the cost is assumed to be \$35,000 in fiscal 2026 (a one-time set up fee of \$5,000 and an annual fee of \$30,000) and \$30,000 annually thereafter.

- **Consultant Costs – \$42,000 in Fiscal 2026** – The estimate assumes a consultant is needed to assist SBE and the local boards of elections with (1) development of regulations and (2) implementation and oversight of the audits following the 2026 primary and general elections. SBE entered into a \$21,000 contract for a legal and election administration support consultant for a 2016 audit pilot program, and this estimate assumes that at least double that amount (\$42,000) is needed in each of fiscal 2026 and 2027. In future years (beyond fiscal 2027), it is assumed that cost decreases to \$21,000 annually, for ongoing assistance with implementation of risk-limiting audits for each statewide election going forward.

It is assumed, for the purposes of this fiscal and policy note, that the automated software audit is still conducted for the 2026 elections and future elections, despite the requirement for the audit being modified in the bill to be an authorization rather than a requirement; therefore, the modification of the requirement to be an authorization is assumed to not result in savings.

Despite the bill’s June 1, 2025 effective date, this estimate assumes that costs are not incurred until fiscal 2026.

Local Fiscal Effect: Local government expenditures may increase annually, beginning in fiscal 2026, primarily for personnel costs related to preparing for and conducting the risk-limiting audits following each statewide election, beginning with the 2026 primary election.

As described by the National Conference of State Legislatures (NCSL), statistically based audit techniques, referred to as risk-limiting audits:

... cut down on the number of ballots that need to be audited, while also providing statistical confidence that an incorrect election result is not certified (*i.e.*, made official). As the name suggests, [a risk-limiting audit] is designed to limit the risk that a contest is certified with the wrong winner. It does this by increasing the initial sample when discrepancies are found until either the level of confidence has been met or a full recount has been performed.

[Risk-limiting audits] are an incremental audit system: If the margin of an election is wide, very few ballots must be reviewed. If the margin is narrow,

more will be reviewed up to the point that enough evidence is provided to confirm the declared election result.

There are two primary types of risk-limiting audits: ballot-polling audits; and ballot-level comparison audits. A ballot-polling audit polls the votes of a random sample of ballots from the audited contest in order to, using statistical calculations, provide sufficiently strong evidence that the outcome of the contest is correct. A ballot-level comparison audit compares a random sample of ballots from the audited contest with the votes recorded by the voting system for each of those ballots in order to, using statistical calculations, provide sufficiently strong evidence that the outcome is correct.

A ballot comparison audit requires fewer ballots to be audited, but a May 2019 Democracy Fund report ([*Knowing It's Right, Part One: A Practical Guide to Risk-Limiting Audits*](#), p. 10) indicated that there was no voting system on the market at the time that allowed for a ballot scanned on a precinct scanner at a polling place to be checked against the votes recorded by the voting system for the ballot. Generally, ballots are not imprinted with a unique number, and the ballots and/or the vote records associated with each ballot are not maintained in sequential order by a precinct scanner, which helps preserve the secrecy of voters' votes. If ballots are scanned centrally (such as in a vote-by-mail state like Colorado), after the ballots have been separated from voters' identities, there are ways to maintain the association between a ballot and the votes recorded by the voting system for the ballot in order to compare the two in a ballot-level comparison audit.

Exhibit 1 illustrates the number of ballots that would have needed to be audited initially in the 2022 general election gubernatorial contest – if a ballot-polling audit of that contest was conducted, using a 5% risk limit – as well as three hypothetical scenarios of closer margins of victory. The risk limit, as stated by NCSL, is “the largest chance that the audit will fail to detect and correct an incorrectly reported outcome.” A ballot-polling audit takes an initial random sample of ballots from all the ballots cast that contain the audited contest. The size of the initial sample is dependent on the risk limit that is established for the audit and the percentage margin between the winning and second-place candidates in the contest, with the total ballots cast in the contest as the denominator. The initial sample size is intended to be sufficient to satisfy the risk limit and complete the audit, but dependent on the tally of votes within the initial sample of ballots, more randomly selected ballots may need to be tallied to satisfy the risk limit.

For illustrative purposes only, on December 18, 2024, Harford County successfully conducted a pilot risk-limiting audit of contests on the November 2024 general election ballot. Based on this experience, Harford County estimates its costs increase by up to \$9,100 to conduct a risk-limiting audit, consisting of personnel costs (\$8,200) and one-time costs for supplies (\$900).

Exhibit 1
Initial Sample Sizes for Audit of Governor/Lt. Governor Contest – 5% Risk Limit

<u>Office</u>	<u>Margin of Victory</u>	<u>Initial Sample Size (Statewide)*</u>
Governor/Lt. Governor – <i>2022 General Election Actual</i>	32%	58
Governor/Lt. Governor – <i>Hypothetical 5% Margin of Victory</i>	5%	2,307
Governor/Lt. Governor – <i>Hypothetical 1% Margin of Victory</i>	1%	57,095
Governor/Lt. Governor – <i>Hypothetical 0.5% Margin of Victory</i>	0.5%	229,445

* The initial sample sizes were calculated using this [ballot-polling audit tool](#), developed by Dr. Philip B. Stark, Professor, Department of Statistics, University of California, Berkeley.

Source: Department of Legislative Services

As shown in Exhibit 1, the number of ballots included in the initial sample size increases exponentially as the margin of victory narrows. In cases where relatively small numbers of ballots need to be audited, there would nonetheless be administrative tasks to undertake to facilitate the audit, including creating a ballot manifest. The ballot manifest is a detailed catalog of the numbers of paper ballots in a county and how they are stored, that facilitates the random sampling of ballots under a risk-limiting audit. Local boards of elections would need a certain amount of resources devoted to the risk-limiting audits (whether permanent staff, temporary staff, or a consultant) regardless of the number of ballots that end up needing to be audited, to ensure the audit process is completed in an accurate and timely manner and to be prepared, on short notice, to adjust to a need to audit a large number of ballots. If large numbers of ballots need to be audited, due to a small margin of victory in a contest, certain counties may also need to pay for additional space in which to conduct the audits.

There may be an offsetting reduction in costs for local boards of elections, or even savings (depending on the sample size of the risk-limiting audit), during general elections (beginning in fiscal 2027), as a result of the repeal of the existing manual audit; however, the existing manual audit is not required to be completed before certification of election results and provides more flexibility for local boards to complete the audit with existing staff to the extent possible.

Additional Information

Recent Prior Introductions: Similar legislation has been introduced within the last three years. See HB 40 and SB 523 of 2024; HB 572 of 2023; and HB 745 and SB 742 of 2022.

Designated Cross File: SB 313 (Senator M. Washington) - Education, Energy, and the Environment.

Information Source(s): State Board of Elections; Allegany, Harford, and Wicomico counties; National Conference of State Legislatures; Democracy Fund; Department of Legislative Services

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