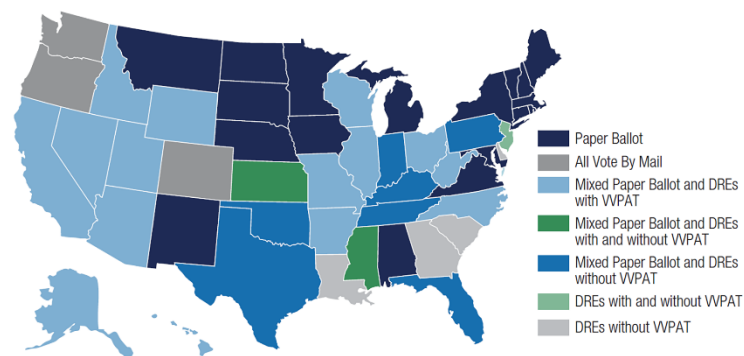


FAST FACTS ABOUT PA'S ELECTION SECURITY

In the November 2018 midterm elections, approximately 83% of Pennsylvanians voted on insecure, paperless voting systems susceptible to hacking and technological errors.

Pennsylvania's continued use of these systems (direct-recording electronic systems, or "DREs") makes the state an outlier: Pennsylvania is one of only nine states that use a combination of paper ballots and paperless DREs. Only five states use exclusively DRE systems statewide.



Source: Verified Voting The Verifier – Polling Place Equipment – November 2018 <https://www.verifiedvoting.org/verifier/>

There is wide, bipartisan consensus among experts (including the National Academies of Science, Engineering, and Medicine) that best practice for voting systems is to use paper ballots marked by voters coupled with robust post-election audits.

The County Commissioners Association of Pennsylvania estimated the cost of replacing paperless voting systems statewide at \$125 million – or \$9.76 per Pennsylvanian.

For the full report, visit www.cyber.pitt.edu/report

RECOMMENDATIONS FROM THE BLUE RIBBON COMMISSION ON PA'S ELECTION SECURITY

RECOMMENDATIONS BY RESPONSIBLE OFFICIAL

	State Officials	Local Officials	Federal Officials
Recommendation 1: Replace Vulnerable Voting Machines with Systems Using Voter-Marked Paper Ballots.	X	X	
Recommendation 2: The Pennsylvania General Assembly and the Federal Government Should Help Counties Purchase Secure Voting Systems.	X	X	X
Recommendation 3: Implement Cybersecurity Best Practices throughout Pennsylvania's Election Architecture.	X	X	
Recommendation 4: Provide Cybersecurity Awareness Training for State and Local Election Officials.	X	X	
Recommendation 5: Conduct Cybersecurity Assessments at the State and County Levels.	X	X	
Recommendation 6: Follow Vendor Selection Best Practices in SURE Replacement Procurement and Leverage Auditor General's Findings.	X	X	
Recommendation 7: Employ Risk-Limiting Audits.	X	X	
Recommendation 8: Implement Best Practices throughout Pennsylvania's Cyber Incident Response Planning.	X	X	X
Recommendation 9: Revise the Election Code to Address Suspension or Extension of Elections Due to an Emergency.	X		
Recommendation 10: Bolster Measures Designed to Address Voting Equipment-Related Issues So Voting Can Continue Even in the Event of Equipment Failure.	X	X	
Recommendation 11: Enhance Measures Designed to Address E-pollbook-Related Issues So Voting Can Continue Even in the Event of Equipment Failure.	X	X	