

A grayscale image of a hand holding a ballot, positioned in the upper left quadrant of the page. The hand is wearing a watch, and the ballot is held between the fingers. The background is a light gray gradient.

Verified Voting

Strengthening Democracy For All Voters



Accuracy & Trust: Election Technology



Is the voter able to:

- Register
- Check in
- Receive the correct ballot...
- Mark and verify...



Is the election official able to:

- Safeguard (everything including) the ballots (chain of custody)
- Audit the vote
- Demonstrate to the public's satisfaction that the votes were counted as cast, or correct any errors so that the right outcome is found?



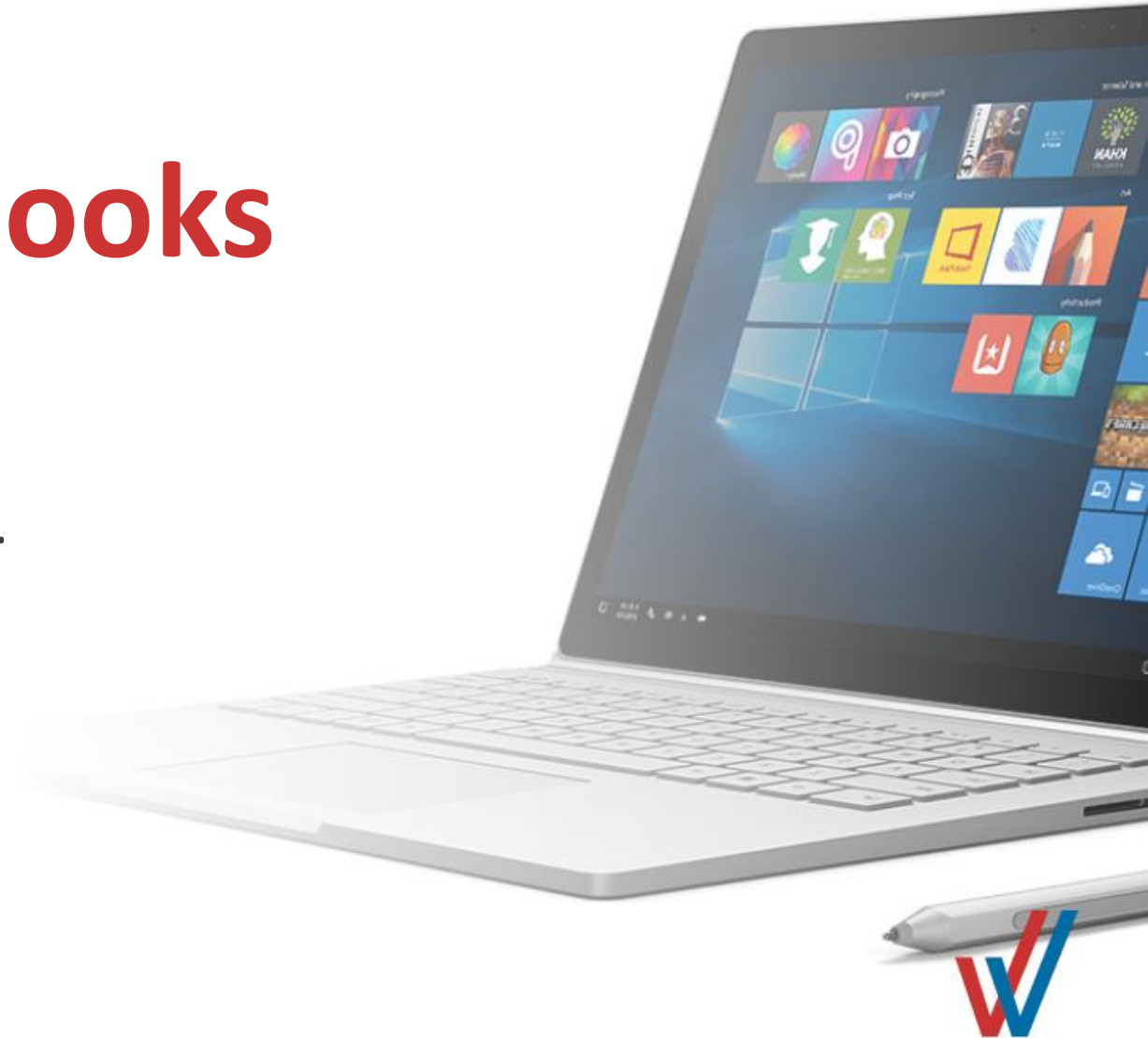
More than voting systems

Registration / Check-in (Electronic Poll Books)
Ballot Marking Devices (BMD)
Ballot Scanner/Tabulators (or hand count?)
All-In-Ones and Direct Recording Electronic (DRE)
Ballot on Demand Printers (BOD)
Election Night Reporting (ENR)



Electronic Poll Books

- Perhaps fastest growing election tech?
- Rapid increase in use
- Today most of the country is using them...





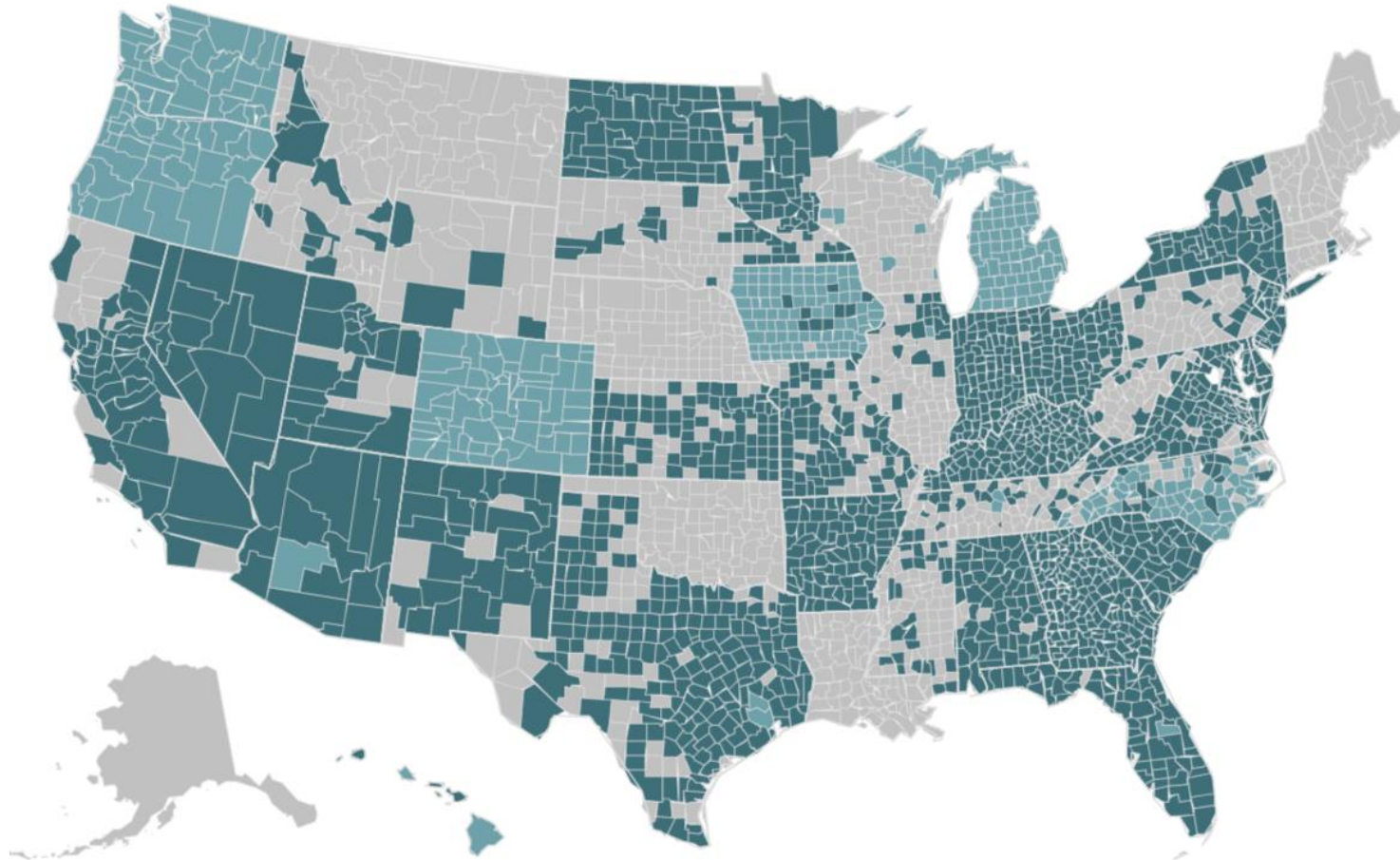
The Verifier — Poll Books — November 2024

Choose A State ▾

Jump to state or jurisdiction



US Territories Excluded in All Calculations



Poll Books		?
	Paper Poll Books	17.2%
	In-House Electronic Poll Books	15.2%
	Commercial Electronic Poll Books	67.7%

🇺🇸 US Territories

EXCEL | CSV | JSON

AS GU MP PR VI



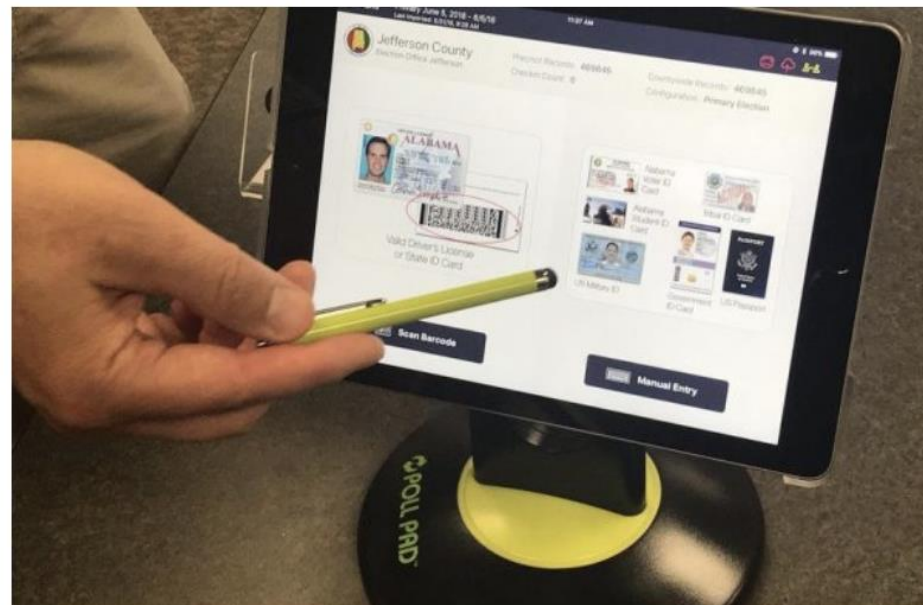
KNOWiNK

Poll Pad

Make / Model: KNOWiNK Poll Pad

Equipment Type: Electronic Poll Book

Overview



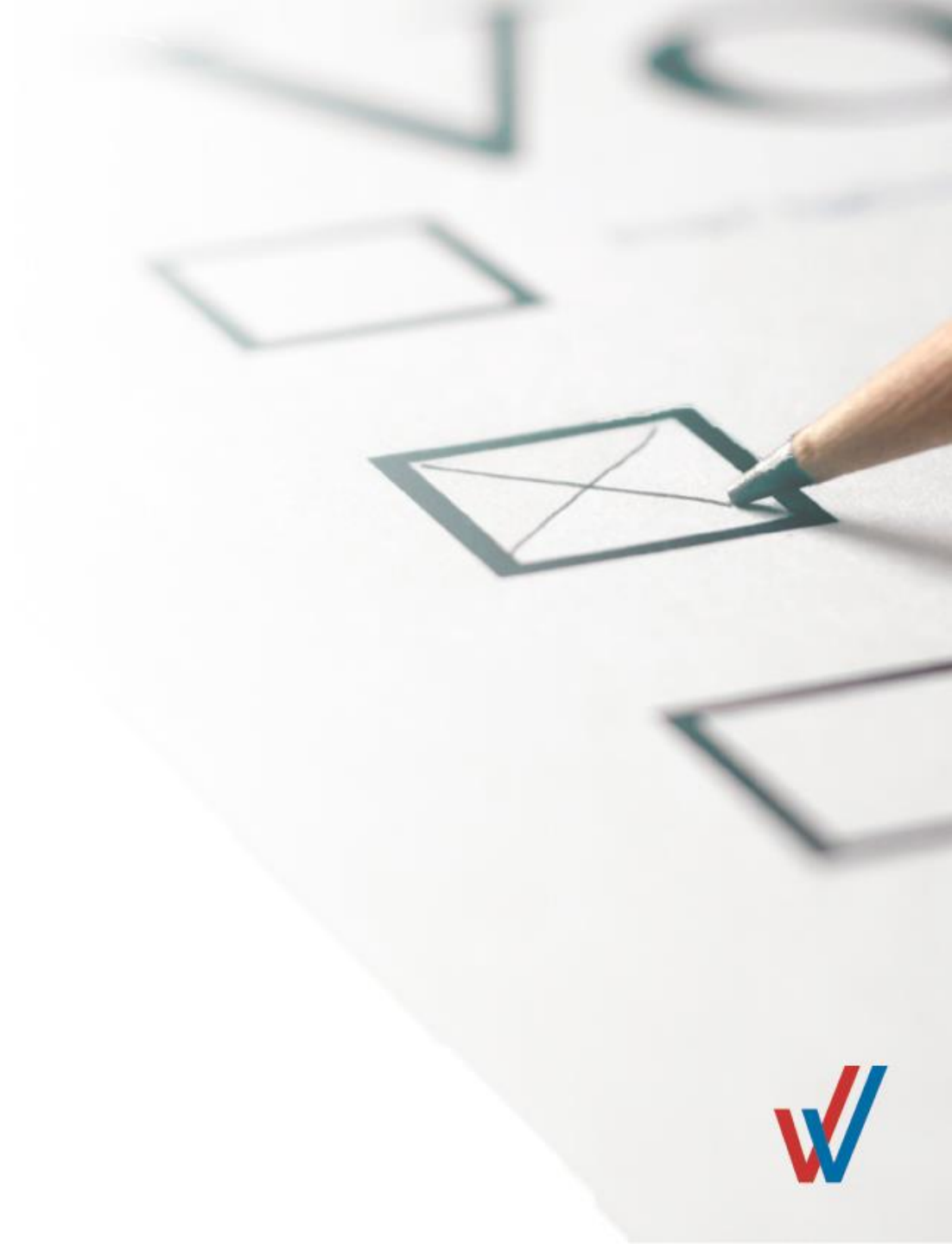
Voting Systems

Marking

Marking/Printing

Marking/Printing/Casting

Counting



Maps Visualizations Equipment Search

2006 2008 2010 2012 2014 2016 2018 2020 2022 2024

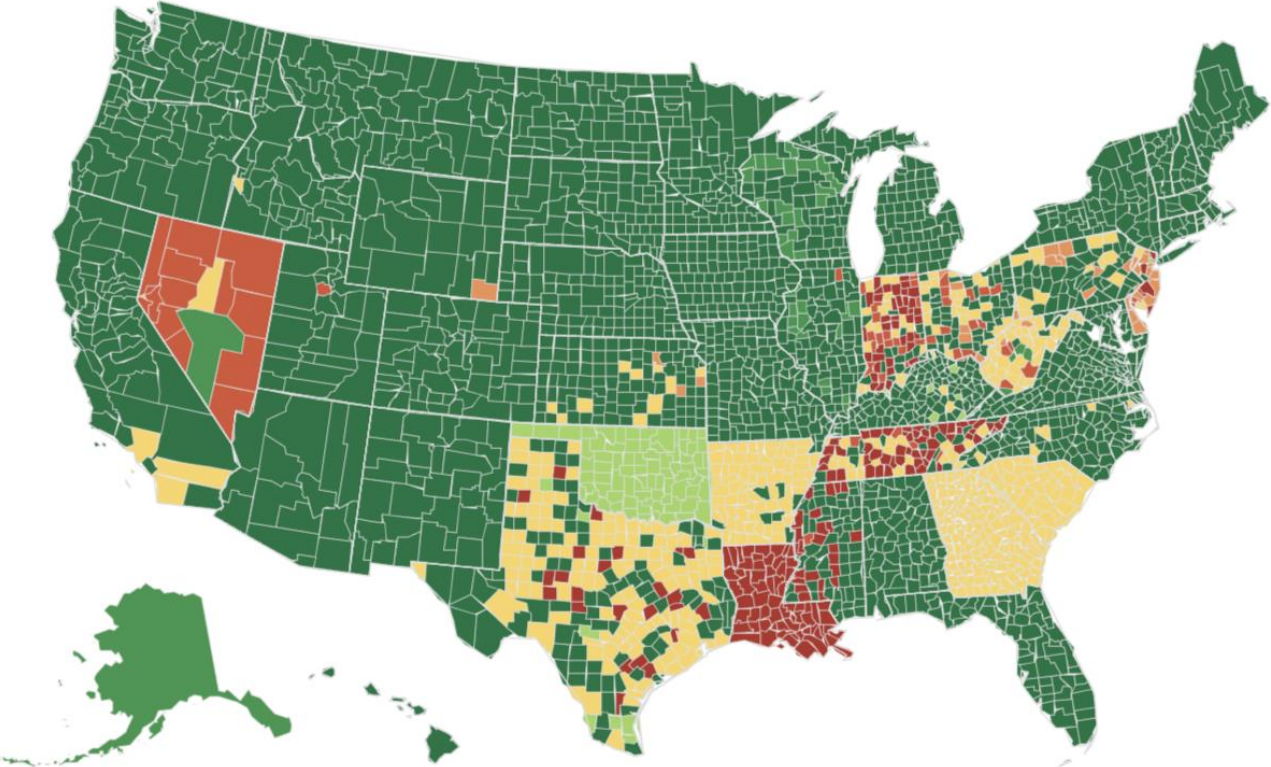
The Verifier — Election Day Equipment — November 2024

Choose A State

Jump to state or jurisdiction



US Territories Excluded in All Calculations



US Territories

EXCEL | CSV | JSON

AS GU MP PR VI

Election Day Equipment ?

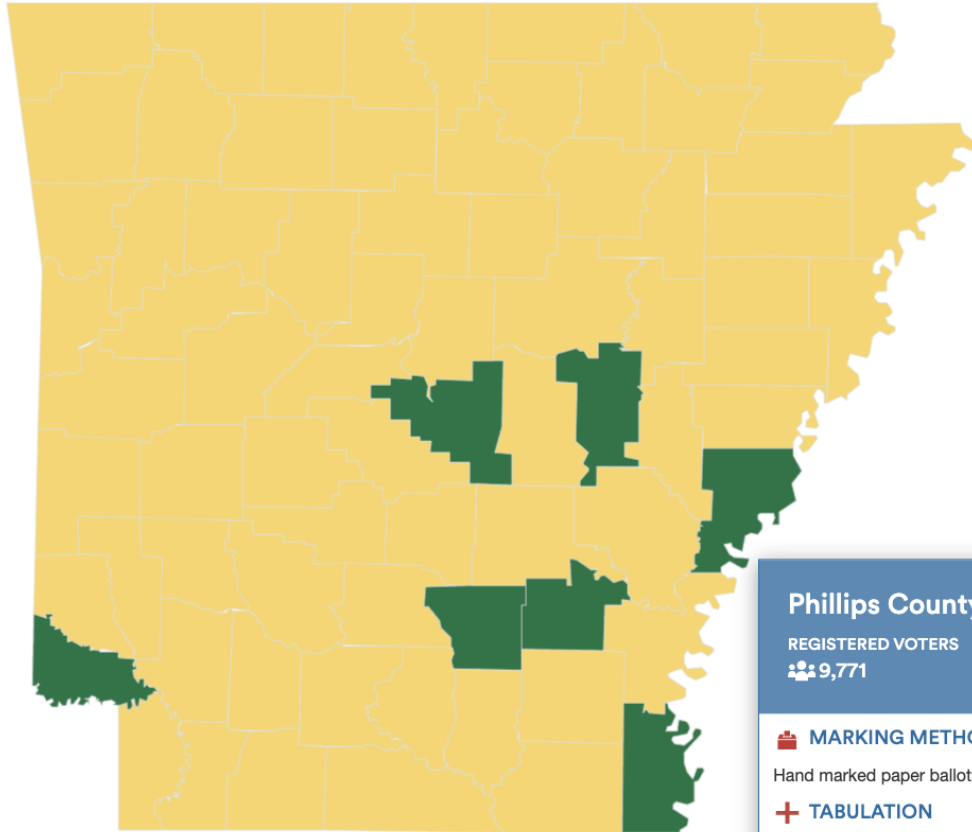
- Hand marked paper ballots and BMDs 66.8%
- Hand marked paper ballots and DREs with VVPAT 0.3%
- Hand marked paper ballots and DREs without VVPAT 0.1%
- Ballot Marking Devices for all voters 21.2%
- Hybrid BMD/Tabulator for all voters 2.8%
- DREs with VVPAT for all voters 2.5%
- DREs without VVPAT for all voters 4.7%

National Map

Arkansas

Choose A County

Jump to state or jurisdiction



Arkansas

REGISTERED VOTERS
(11/2022)
1,799,136

PRECINCTS
(11/2022)
2,737

Secretary of State
▶ John Thurston
Election Director
▶ Leslie Bellamy

Election Day Equipment

Hand marked paper ballots and BMDs	15.5%
Ballots and BMDs	0%
Ballots and BMDs	0%
es for all voters	84.5%
or for all voters	0%
all voters	0%
for all voters	0%

Phillips County

REGISTERED VOTERS
9,771

PRECINCTS
70

MARKING METHOD

Hand marked paper ballots and BMDs

TABULATION

Optical Scan

POLL BOOKS

Commercial Electronic Poll Books

MANUFACTURER

ES&S

MAIL BALLOTS

Hand-Fed Optical Scanner

EXCEL | CSV | JSON

At A Glance — Election Day Equipment — Arkansas — 2024

Hand Marked Paper Ballots

15.5%

Percentage of registered voters living in jurisdictions using Hand Marked Paper Ballots for most voters

Ballot Marking Devices (BMDs)

84.5%

Percentage of registered voters living in jurisdictions using Ballot Marking Devices for all voters

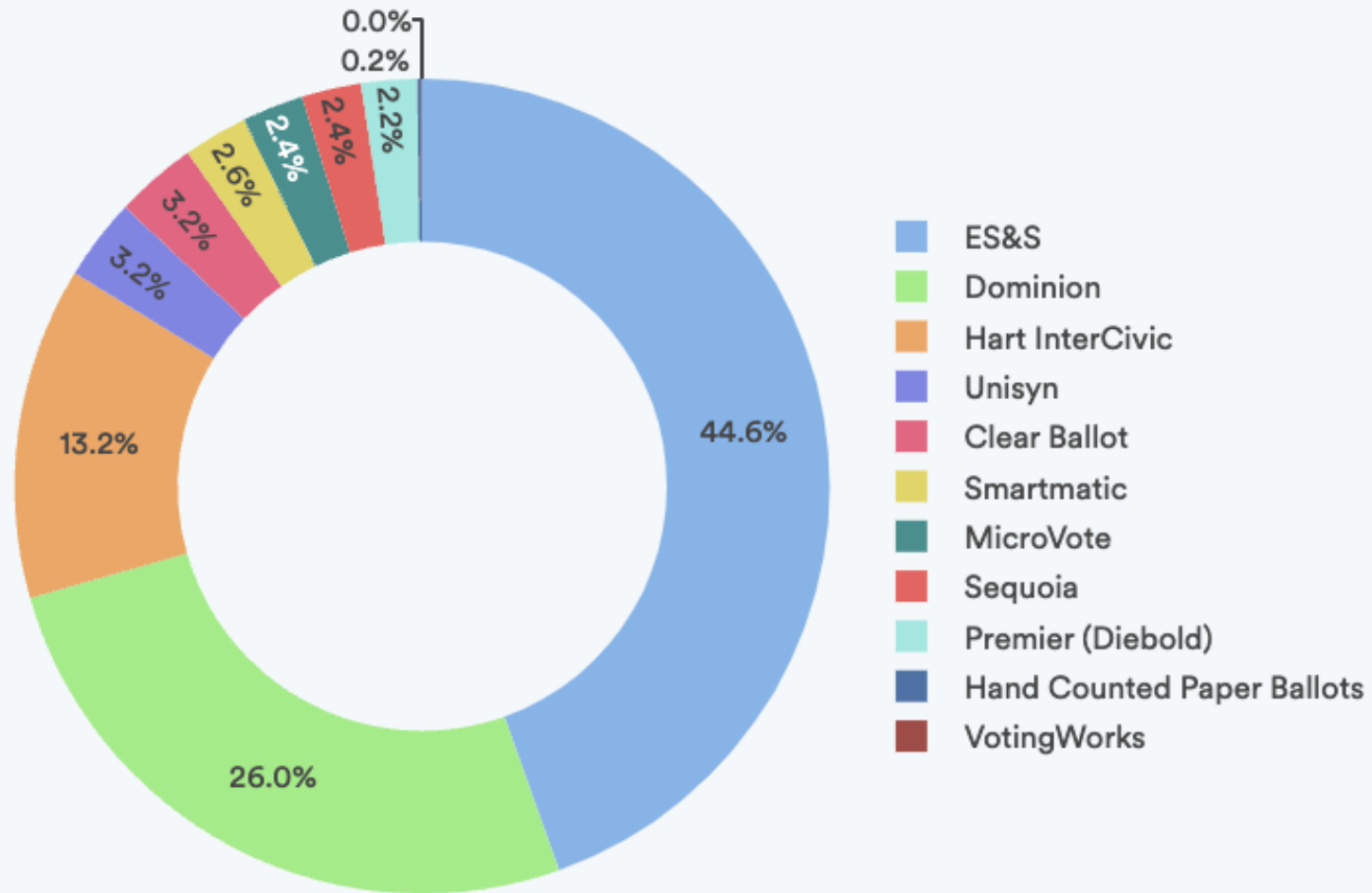
Direct Recording Electronic (DRE) Systems

0.0%

Percentage of registered voters living in jurisdictions using Direct Recording Electronic (DRE) Systems for all voters

Voting Equipment Manufacturers

By Number of Registered Voters, National, As of November 2024



Voting Equipment by Type

Click on the links below to reach pages with overviews of voting systems, voting instructions, demonstration videos and manufacturer information. For details about where specific equipment is in use in American elections, please visit [The Verifier](#) interactive map.

Optical Scan Voting Systems	Hand-Fed Optical Scanners Clear Ballot ClearCast DFM Mark-A-Vote Dominion ImageCast Precinct ES&S Model 100 ES&S DS200 ES&S/Unisyn InkaVote Hart InterCivic eScan Hart InterCivic Verity Scan MicroVote/Chatsworth ACP 2200 Premier Election Solutions (Diebold) AccuVote OS Premier Election Solutions (Diebold) AccuVote OSX Sequoia and ES&S Optech IIIP-Eagle Sequoia Voting Systems Optech Insight Unisyn Freedom Vote Scan (FVS) Unisyn OpenElect OVO VxScan
Hybrid Voting Systems	Batch-Fed Optical Scanners AVS WINScan Clear Ballot ClearCount Dominion ImageCast Central ES&S Model 650 (and Models 150 and 550) ES&S DS850 & DS450 Hart InterCivic Ballot Now Hart InterCivic Verity Central Premier Election Solutions (Diebold) AccuVote OS Central Sequoia Voting Systems Optech 400C Smartmatic/Los Angeles County VSAP Tally Smartmatic/Smartmatic
Ballot Marking Devices	
Direct Recording Electronic (DRE)	
Electronic Poll Books	
Remote Ballot Marking Systems	

Accuracy & Trust: key questions



Is It Safe?

- Equipment – by itself – is not “secure”
- ...but it can be securable
- Practices and policies and people



Is it observable?

- Easier to trust what you can see and understand
- Movement away from “black boxes” toward paper
- What about hand count?



Maps ▾

Visualizations

Equipment Search

Verifier Search - Hand Counted Paper Ballots / 2024

Search Equipment

All States ▾

Hand Counted Paper Ballots ▾

All Makes ▾

All Models ▾

2024 ▾

Display

Reset

Legend

- Jurisdictions with selected systems
- Jurisdictions without selected systems

Some voters in the jurisdictions shown use the selected equipment for some purposes. See specific jurisdictions for details.

US Territories

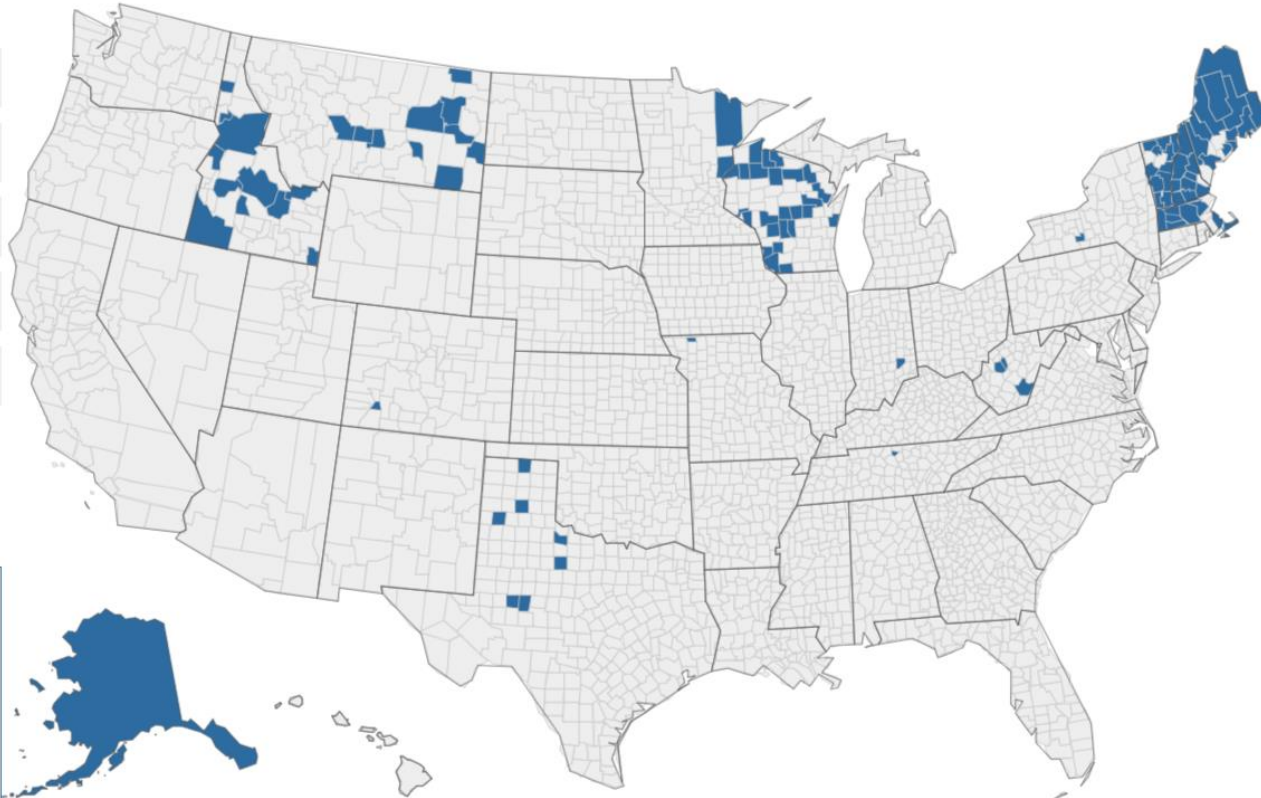
AS

GU

MP

PR

VI



Search parameters: / Hand Counted Paper Ballots / 2024
EXCEL | CSV | JSON

Maps ▾

Visualizations

Equipment Search

Verifier Search - Missouri / Hand Counted Paper Ballots / 2024

Search Equipment

Missouri ▾

Hand Counted Paper Ballots ▾

All Makes ▾

All Models ▾

2024 ▾

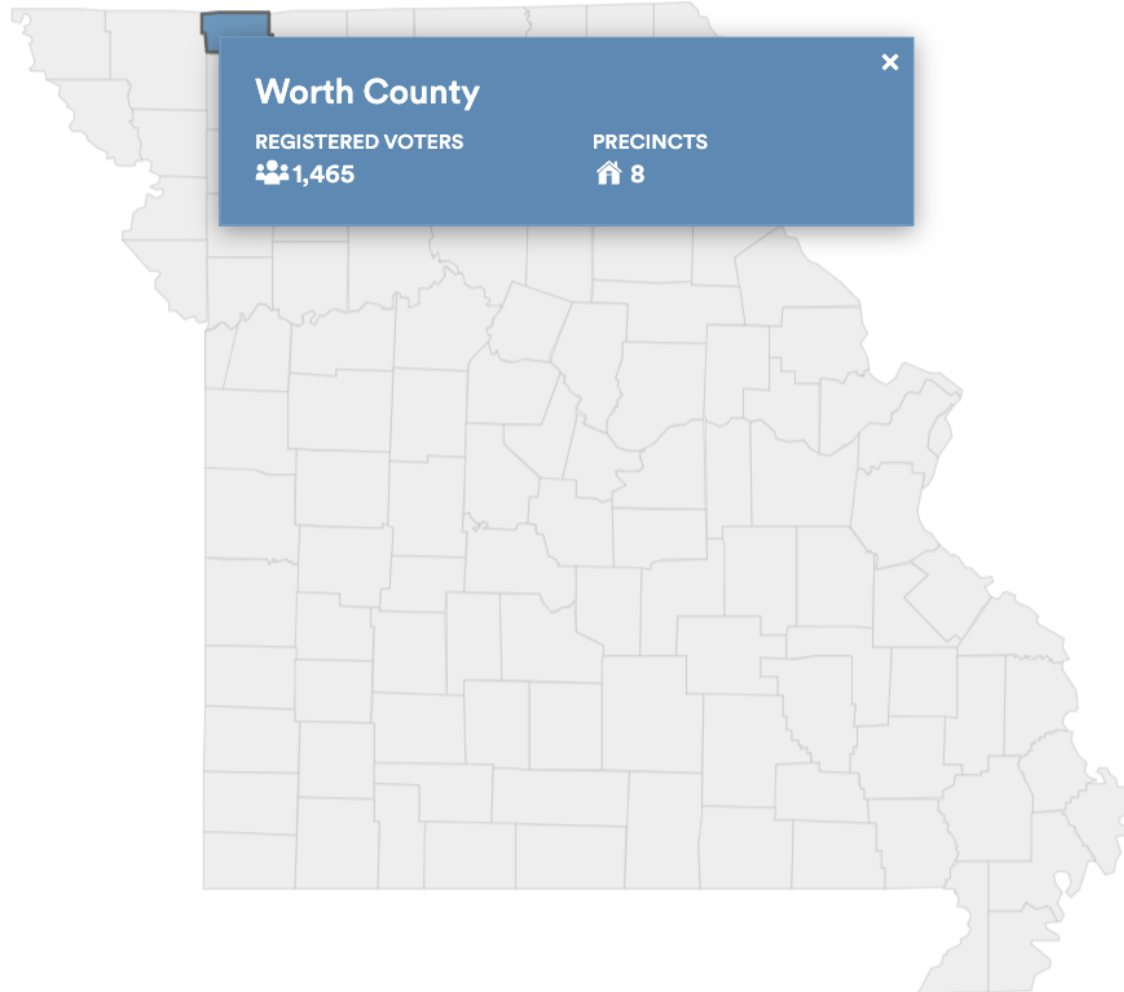
Display

Reset

Legend

- Jurisdictions with selected systems
- Jurisdictions without selected systems

Some voters in the jurisdictions shown use the selected equipment for some purposes. See specific jurisdictions for details.



Search parameters: / Missouri / Hand Counted Paper Ballots / 2024

EXCEL | CSV | JSON

Is it auditable?

Physical ballot +
Verified by the voter at the time of voting =
Evidence of voter intent, suitable for audit/recount

How Old Is It?

Why it matters

- Are updates still supported?
- Are consumables still available?
- More known vulnerabilities?
- Increased failures likely



Maps ▾

Visualizations

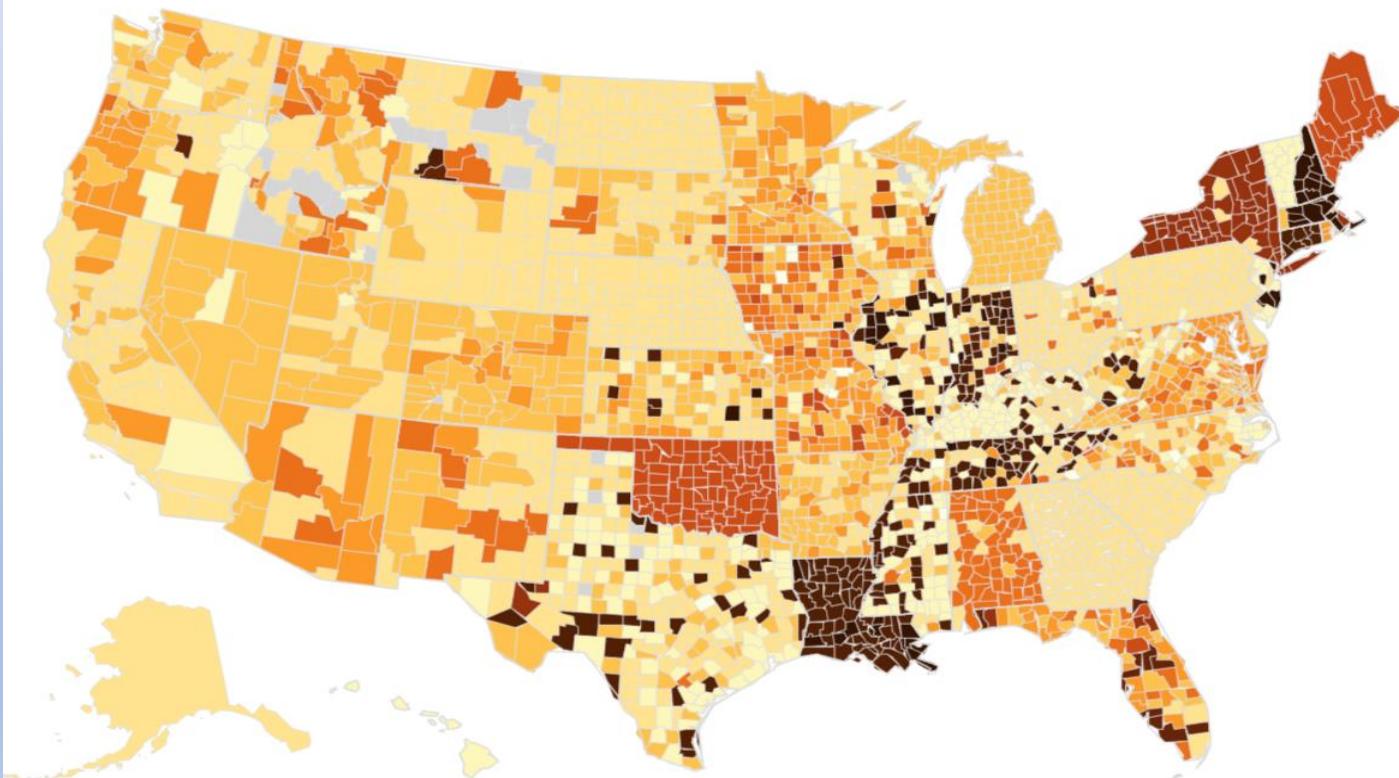
Equipment Search



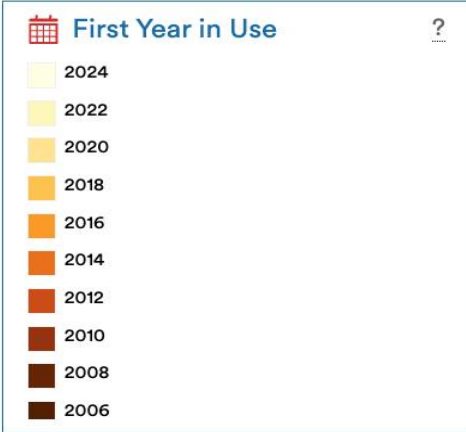
The Verifier — First Year in Use — November 2024

Choose A State ▾

Jump to state or jurisdiction



- Standard Equipment
- Accessible Equipment
- Mail Ballot Tabulation



- US Territories
- AS
 - GU
 - MP
 - PR
 - VI

EXCEL | CSV | JSON

Questions?



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