

VoteShield safeguards voter registration data

Spotting changes to voter registration data is the first step to resolving them.
We're here to help.



Agenda

1. What is VoteShield?

2. How Does VoteShield Work?

3. About Us

4. Security & Access

5. Live Demo



1. What is VoteShield?



VoteShield helps election officials
in the U.S. **keep voter data safe**
from interference, errors, and
misinterpretation.



VoteShield can help you spot cyber-attacks, fix good-faith user errors and export problems, and keep you informed of changes in your own public data.





OUR VALUES—WHAT WE BELIEVE

1.

Qualified voters are entitled to free and fair elections.

2.

The ideal voter file is both complete and accurate.

3.

Election officials work in good faith toward these goals.

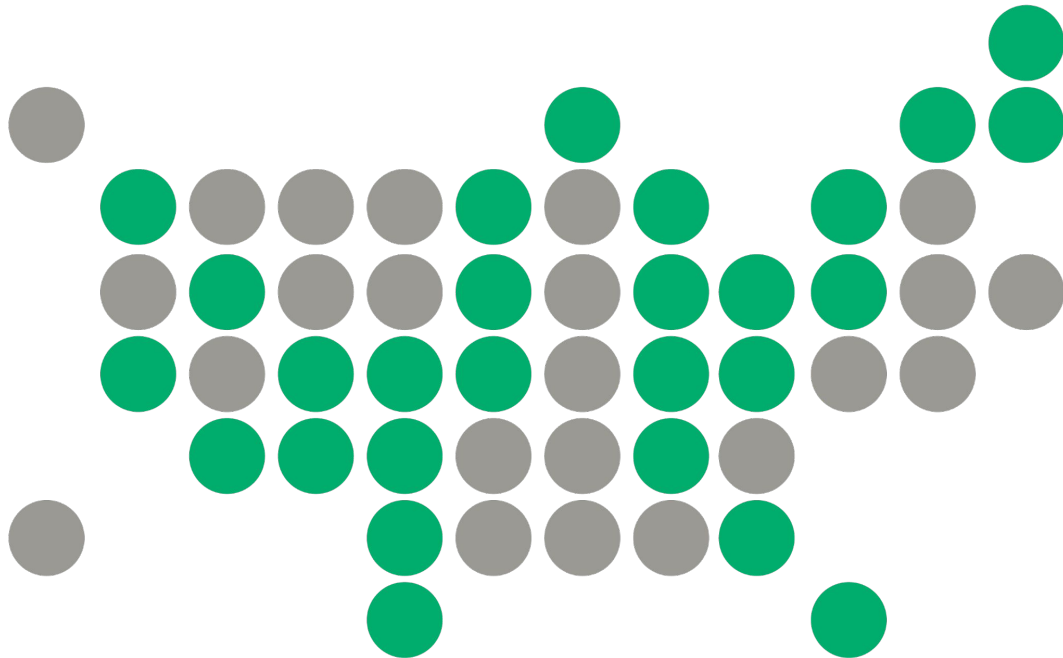
4.

Public confidence in elections is critical to our democracy.



VoteShield is currently available to election officials in 27 states

Arizona	New Hampshire
California	New Jersey
Colorado	New Mexico
Florida	New York
Georgia	North Carolina
Iowa	Ohio
Kansas	Oklahoma
Maine	Pennsylvania
Michigan	Texas
Minnesota	Vermont
Missouri	Virginia
Nebraska	Washington
Nevada	West Virginia
	Wisconsin





2. How Does VoteShield Work?

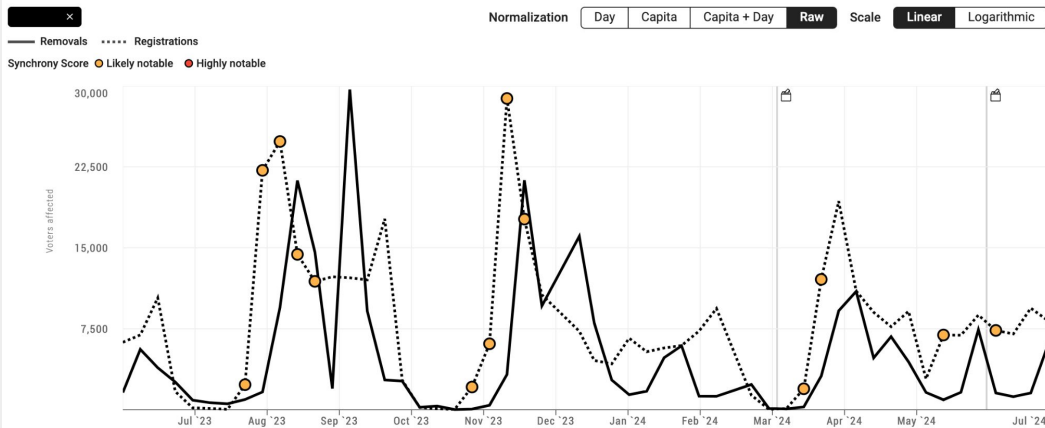


We observe changes over time.

Every state makes voter data publicly available. VoteShield collects public voter files on a weekly or monthly basis, and looks for changes by comparing each snapshot to historical trends.

Removals, Registrations in

The timeline below shows total voters removed, registered. The Synchrony Score, represented as dots on the chart lines, quantifies how much a set of removals, registrations differs from what we might expect of similar changes in higher score (≥ 7) coincides with a high likelihood to require review, while a lower score (< 4) indicates the likelihood that these changes are not unexpected. Note that scores will only show on state-level lines and only for removals, registrations, inactivations, reactivations, address changes, name changes, and party changes. In order to see scores that are likely notable, you may have to adjust the date range of the timeline.





We analyze demographics.

We use machine learning, and variables in the voter file itself like age and vote history, to spot minute changes across time and place.

Anomalies in Counties in

Viewing anomalies highlighting the Geographic index which measures the irregularity of a change group compared to other locations in the state at the same point in time. Index scores range from 0-10, where 10 is the most anomalous. Note that high anomalies scores may be more statistically significant, but do not necessarily equate to problematic.

Labels created or confirmed by a user are marked with . Predicted labels are noted with and are labels predicted by our system where the percentage shows the system's confidence level (100% being highly confident).

Viewing **Geographic Anomaly Index** Minimum affected voters

50

 Download

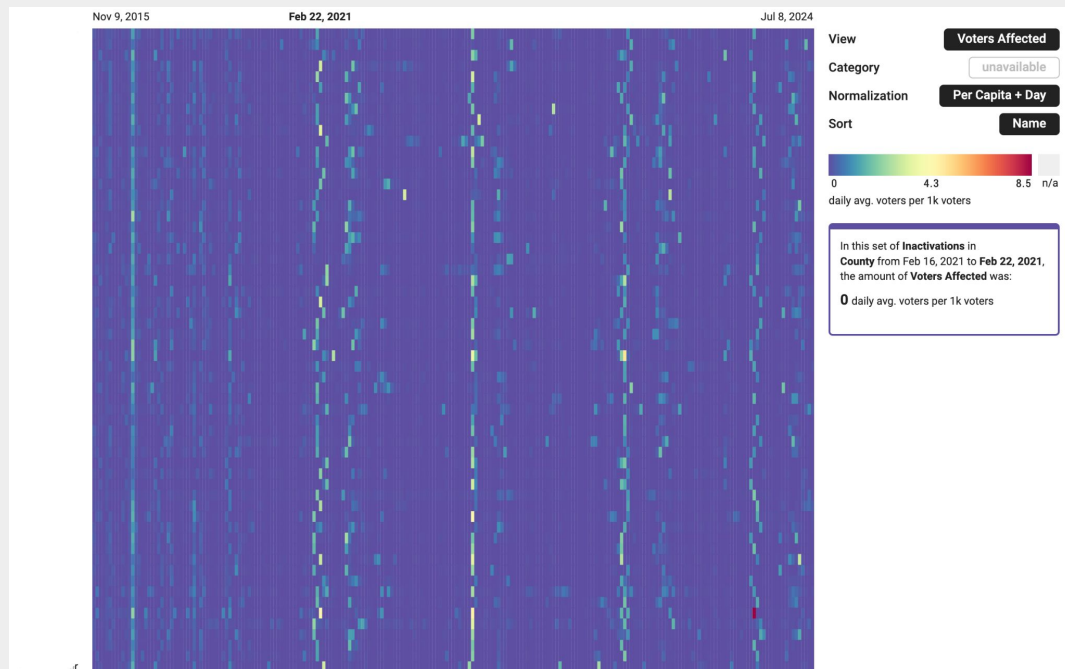
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Geographic Index	Snapshot	Change Type	Location	Voters Affected	% Affected (Total voters)	Change from Previous Snapshot	Labels
3.23 	Jan 27, 2024 - Feb 3, 2024	Address Changes	County	592	3.4% 17,653	1,063.5%	Not Notable: 99%
2.83 	Jan 20, 2024 - Jan 27, 2024	Inactivations	County	166	0.4% 42,687	n/a	Not Notable: 98.4%
2.77 	Aug 26, 2023 - Sep 2, 2023	Address Changes	County	7,084	10.8% 65,789	919.4%	Not Notable: 94% Notable: 6%
2.6 	May 4, 2024 - May 11, 2024	Address Changes	County	6,853	1.8% 372,645	215.8%	Not Notable: 98.7%
2.45 	Aug 26, 2023 - Sep 2, 2023	Inactivations	County	70	0.2% 34,185	n/a	Not Notable: 98.8%
2.42 	Jun 24, 2023 - Jul 1, 2023	Removals	County	686	1.8% 37,599	8,475%	Not Notable: 59% Notable: 40.8%



We **examine** statewide trends.

Visualizing years of changes to voter registration files across an entire state allows us to identify trends in pre-and post-election registrations, removals, address changes, and more.





We track absentee ballots.

We can review trends in returns, rejections, and track addresses with large numbers of absentee ballots.

2024 Primary Election ballot analysis

This page shows election-level analysis of ballot data for the 2024 Primary Election in Iowa. Our system currently has **68 reports**.

[View most recent report →](#)

Filter records by Vote Method:

Mailing

Trends

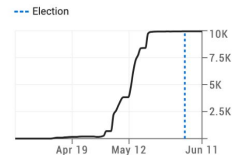
Trends of key measures for this election. Showing records for when **vote method** is **Mailing**.

Applications sent

Metric unavailable for this state.

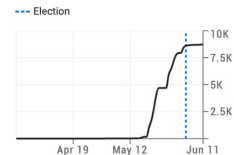
Ballots sent

The number of absentee ballots sent out over time as **ballots**.



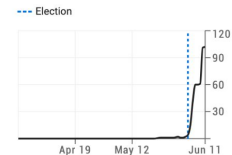
Ballots returned

The number of absentee ballots returned after being filled out over time as **ballots**.



Ballots rejected

The number of absentee ballots rejected after being returned over time as **ballots**.





3. About Us



VoteShield is a project of,
and is exclusively funded by,
Protect Democracy.





COLLABORATIVE PARTNERSHIPS

“VoteShield is an important component to help us ensure the integrity of Iowa’s voter data and elections. The system is available for all 99 county auditors to use. Auditors know their counties best, so if an anomaly is detected, they are able to investigate it themselves.”



Paul Pate, Iowa Secretary of State



COLLABORATIVE PARTNERSHIPS

“VoteShield offers an unparalleled external analysis of changes to voter rolls, which ensures that large scale voter registration irregularities are not occurring, and if they were, that we would detect them.”



-Jonathan Brater, Director of the Michigan Bureau of Elections



4. Security & Access



We take the **integrity** and **privacy** of the VoteShield platform very seriously.



- ✓ All voter data is encrypted in storage and in transit
- ✓ Our platform (and organization) adheres to best industry practices.
- ✓ We follow NIST's Guide to Protecting the Confidentiality of Personally Identifiable Information
- ✓ We follow DHS's Handbook for Safeguarding Sensitive Personally Identifiable Information.



HOW DO I ACCESS VOTESHIELD?

- ✓ Exclusively available to in-state election officials
- ✓ Access is free at www.voteshield.us
- ✓ The site is password protected—public cannot access

Thank You.

For demo requests, media requests, or to learn more, please reach out to our team.

support@voteshield.us www.voteshield.us