

Report of Issues Discovered in Ohio's Statewide Voter Registration System

A distress call to Ohio's SoS to conduct emergency repairs on our voter registration database and preserve confidence in our elections.

Ohio Election Security Project

Presented by

Ohio Votes Count

Initial Report

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Forward

Since shortly after the November 3rd 2020 Presidential election there has been much uncertainty about the integrity of election systems across the county. Any credible person would admit that election fraud occurs, but the general belief has been that it is not on a large enough scale to affect the results of an election.

However, 2020 was different than most years. Besides the more typical reports of double counting and mysteriously discovered uncounted ballots, this time there were indications of problems on a much larger scale. National news media reported election night pauses in vote counting. Video sleuths presented images of newscast chyrons showing vote counts being reversed, and there were reports of cyber intrusion into the election infrastructure. Surveillance video showed ballots that were hidden under tables counted in the middle of the night after election observers were sent home. Thousands of persons filed sworn affidavits attesting to violations of election procedures.

More than a year later, the uncertainty about election integrity has not diminished. Many of us had taken our elections systems for granted, but one positive from the turmoil around 2020 is that we now realize just how important our election systems are. The entire foundation of American government depends on citizens choosing those who govern us through elections. There is no “government of the people, by the people, and for the people” without fair and honest elections. There is no consent of the governed. The integrity of election systems is critically important to the fabric of our free society.

From a purely financial perspective, at the federal level, the winners of elections control trillions of dollars, at the state level billions, and at the local level millions. Compare that to your bank account or credit card account. Shouldn't the systems that control elections be at least as, or more, secure than those accounts? A vending machine checks a dollar bill for authenticity before dispensing a soda. Shouldn't a ballot be protected from counterfeiting, and shouldn't a voting machine be required to check for an authentic ballot?

The power and control “We the People” grant to our authorities through the election process is worth safeguarding. Would you simply dismiss an erroneous bank statement because it was only a small amount or a credit card statement because only a small number of transactions were incorrect? Of course not. Likewise, we demand accuracy of our voter rolls. We don't dismiss small errors in critical election systems. Granted, human beings will make mistakes. That is all the more reason to have robust systems in place to catch and correct those errors and audits to ensure the process is working properly.

This report is based on the small portion of the voter registration databases shown to the public. The mistakes and questionable findings included in this report are significant. Imagine what a similar investigation into the entire system might reveal.

Finally, elections are complicated. Come election day things operate pretty well thanks to competent election officials and workers. We are not experts in elections. We rely on experience, intelligence, and advice from county boards of election when we can get it. We've tried to document the findings in this report in a manner that invites cross-checking. If we've reached an incorrect conclusion or made a mistake let us know, and we'll correct it. The goal of this report is simply to improve the quality of data in Ohio's voter registration systems.

EXECUTIVE SUMMARY

A group of Ohioans interested in preserving secure elections in our state has performed this evaluation of Ohio's statewide voter registration database. There is strong evidence, and credible voices are calling "foul" related to the November 2020 Presidential election. It is a matter of concern to all Ohioans because without honest elections there is no American republic.

Publicly available data from the [Ohio Secretary of State \(SoS\) website and the Statewide Voter File](#) was evaluated against rules in the Election Official Manual (EOM). In addition, tests that have proven to be issues in other states were performed on Ohio voter data. Many evaluations reference the November 2020 election because it is the most recent Presidential election and has a large number of recorded ballots to evaluate. The results focus on the state of affairs as they were at the end of November 2021.

This report does not question the outcome of any Ohio 2020 election. However, the discoveries disclosed in this report do support claims that ballots were cast in Ohio in November 2020 using non-valid voter registrations.

Summary of Principle Findings

- 11,333 voter records have names inconsistent with SoS data entry rules
- Obviously invalid names like ". Doc" and "SIR L" are registered and voted in the Nov 2020 Presidential election.
- 861 registered voters are either over 113 years old or have invalid birth dates
- Voters reported to be over 113 years old cast 154 ballots on Nov 3, 2020.
- Over 280,000 voter registrations occur on federal holidays when Boards of Election are closed and mail is not delivered.
- 223 registered voters were registered before their birth date. 171 of them voted on Nov 3, 2020
- 63,664 voters have an invalid registration date
- 14,268 likely duplicate registrations
- Errors in mailing addresses could prevent voters from receiving election related information
- 153 voters are registered at a high school/elementary school campus
- Numerous voters registered at college residences are improbably old to be valid registrations
- County voter registration databases have records not in the statewide database, the statewide database has records that are not in the county databases.
- Birth dates, which should be constant, changed between versions of the SWVF downloaded on different dates.

Suggested Actions

Prior to the important May 2022 primary election, questionable records need to be investigated to determine if the registrations are legitimate and removed from the database if invalid. Investigations are necessary to determine how **persons with names such as Gregory A 9801033, <period> DOC, CY <period>, SIR L**, and many others are registered, and become active voters with votes cast under those registrations in the Nov 2020 Presidential election. Persons responsible for casting those votes and allowing those votes to be cast should be held accountable.

The official results from the Nov 2020 Presidential election indicate **103 precincts had over 90% turnout**, which is an indicator of potential fraud. The SoS should take action to sequester and audit all election related materials from that election prior to expiration of the 22-month federal holding period on September 2, 2022.

This review has discovered addresses that have many more voters than seems appropriate for the type of building. **Registrations with college addresses should be reviewed and any voter with an age above a typical college student should be investigated** and removed from the rolls if they can't be verified. Single family residential addresses with 5 or more voters and senior living centers with more registered voters than capacity are candidates for further investigation.

While the SoS has made attempts to clean the voter rolls, much more needs to be done. The law allows Ohio electors (registered voters) to challenge someone's right to vote or to request corrections to the voter rolls. The SoS has published Form 257 for that purpose. It is not practical for anyone to complete forms for all of the potential corrections or challenges that could be made in all of Ohio's counties. Instead, the SoS, or an independent auditor, should repeat the data analysis described in this report, and make the necessary corrections to both the statewide and county voter rolls. We offer our services to assist in that process and to independently verify the condition of the database.

Software and improved processes to prevent invalid entries are needed. Routine screens for invalid data need to be implemented to find and correct data entry errors promptly after they occur and prior to elections to ensure voter rolls are correct before voting begins.

This report is limited to only the publicly available data. Based on this limited review there are more than enough deficiencies to warrant a **comprehensive audit of the entire database, as Ohio law requires the SoS to annually perform**. The audit should include cross-checks to other available databases such as Social Security records, the Ohio BMV, vital statistics data from the Ohio Department of Health, and other databases with reliable directories of names, addresses, and birth dates. **The SoS is unable to produce audit documents and apparently has not performed the required annual audit for several years.** This being an election year with the SoS office up for re-election, **the Ohio General Assembly should independently commission this audit** to avoid any conflict of interest.

Ohio law establishes an Absent Voter's Ballot Application Mailing Fund, and permits the SoS to send unsolicited applications for mail ballots. Mail ballots are much more prone to fraud than other ballots, and sending unsolicited applications exacerbates the problem. **The authorization to send unsolicited applications should be removed from the law.**

Names used for voter registration must be verifiable, but neither the SoS directives nor the voter registration form presents standards for use of formal names. The law should require that the name used to register to vote match exactly the name presented on the document used for voter identification. **Nicknames and initials should be disallowed in the first, middle and last names.**

In 2014, then Ohio SoS Jon Husted entered into a [settlement agreement](#) with Judicial Watch and True the Vote. In the settlement agreement, Husted agreed to a number of measures designed to remove duplicate, moved-out-of-state, and deceased voters from the rolls and to keep addresses updated. The agreement expired in 2018, and it appears there has been significant backsliding. **The General Assembly**

should incorporate the terms of the True the Vote/Judicial Watch v Husted agreement into law and specify penalties for non-conformance.

IT systems, computer security, and databases are complicated. Election officials are not IT specialists, and we should not expect them to be. Electronic election systems are essentially a black box to elections officials. They interact with the user interface and reporting systems of the software. **Neither they, nor the public, has access to the computer program behind the user interface.** They rely on the recommendations of the Ohio Board of Voting Machine Examiners which is presently comprised entirely of selected county elections officials, not cyber security professionals. Elections are safeguarded largely by bipartisan oversight of all processes. **There is no bipartisan oversight when it comes to 3rd party IT vendors and system support.** A 3rd party IT administrator has total access and control over the system without the normal checks.

State and federal law stipulates that only citizens are eligible to vote. A registrant's personal declaration that they are a US Citizen is the only check on a voter's citizenship. **While driver's license numbers and social security digits are requested during the registration process, they are not required to register to vote.** A more robust verification process is needed to protect the rights and votes of legally registered persons.

Introduction

In Ohio, as in other states, the Secretary of State (SoS) is responsible for maintaining a statewide database of all registered voters. Among the election related duties, the Ohio legislature has directed the Secretary to conduct an annual audit of the State Wide Voter Registration Database. The Ohio Revised Code (ORC) section 3503.15(D)(5) states:

- (D) The secretary of state shall adopt rules pursuant to Chapter 119. of the Revised Code doing all of the following:
- (1) Specifying the manner in which existing voter registration records maintained by boards of elections shall be converted to electronic files for inclusion in the statewide voter registration database;
 - (2) Establishing a uniform method for entering voter registration records into the statewide voter registration database on an expedited basis, but not less than once per day, if new registration information is received;
 - (3) Establishing a uniform method for purging canceled voter registration records from the statewide voter registration database in accordance with section 3503.21 of the Revised Code;
 - (4) Specifying the persons authorized to add, delete, modify, or print records contained in the statewide voter registration database and to make updates of that database;
 - (5) Establishing a process for annually auditing the information contained in the statewide voter registration database;**

As citizens concerned about the state of election systems, we submitted a formal records request under Ohio open records laws for copies of the 2019, 2020, and 2021 audit reports. On December 17, 2021 the Assistant Chief Legal Counsel for the Office of the Ohio Secretary of State replied **“I have inquired within our office and determined that we do not maintain records responsive to your request.”** We made a follow-up request for the two most recent audit reports, to which we received the same reply.

Despite it being an annual legal responsibility of the Secretary of State, this undertaking is apparently the only assessment of the State Wide Voter Registration Database to have taken place in the last five years. It is being done with the information publicly available at the time of the investigation. The Secretary may possess additional information that would explain some issues raised in this report. Nevertheless, the publicly available data is our window into the operation of our government. If government officials choose not to reveal data to the public, perhaps for valid reasons, they then have the duty to fully explain the issues raised by examination of the available data.

As required by ORC 3503.15 (G)(1), the State Wide Voter Registration Database is presented to the public from the Ohio Secretary of State website through [downloadable data files](#), aka the State Wide Voter File (SWVF).

ORC 3503.15 (G) (1) The statewide voter registration database established under this section shall be made available on a web site of the office of the secretary of state as follows:

- (a) Except as otherwise provided in division (G)(1)(b) of this section, the following information from the statewide voter registration database regarding a registered voter shall be made available on the web site:

- (i) The voter's name;
- (ii) The voter's address;
- (iii) The voter's precinct number;
- (iv) The voter's voting history.

While not every element of data about a voter is available to the public, the SWVF datafiles do provide the voter's full name, residential address, mailing address, birth date, registration date, party affiliation, whether the voter is active or in the process of being confirmed, and voting history for the last 10 years.

Each Ohio county Board of Election (BOE) also maintains their own voter registration database. Similar to the files that can be downloaded from the SoS website, almost every county provides access to their database. In addition to the info provided in the state wide voter file, county voter files typically include a more detailed voter status, and the voting history includes the method used to vote (by mail, in person, early, or election day).

The SWVF is fed updates from each of Ohio's 88 counties. The county BOE systems are directly connected to the SoS database, and the databases are synchronized in near real-time. Thus, changes at the county level are transferred to the state level with very little delay. Ohio law (ORC 3503.15(D)(2)) requires the Secretary to incorporate changes into the SWVF "not less than once per day" when new registration information is received. In a properly synchronized system, the county records in the SWVF and the county voter registration database are identical except for the updates that occur between data transfers.

The SoS posts updated SWVF files weekly. This review focuses primarily on a copy of the database downloaded from ohiosos.gov on 11/27/21. To evaluate the synchronization of county and state voter files, the voter files from several counties were also downloaded from their Board of Elections websites on 11/27/21.

As Ohio's Chief Elections Officer, the SoS issues directives to county Boards of Election. Those directives include an [Election Official Manual \(EOM\)](#). We downloaded and used a February 2021 issue of the manual that was published on the ohiosos.gov website until a recent update. The EOM provides detailed instructions related to voter registration and data input into the SWVF as well as voting procedures and election processes.

Database software is required to evaluate the SWVF data. A typical file set is approximately 4GB in size and consists of approximately 8,000,000 records. For this evaluation SoS data files were loaded into a Microsoft SQL Server database. County voter files were either loaded into SQL Server or were reviewed using Microsoft Excel. Microsoft SQL Server databases are queried using Structured Query Language (SQL) statements. SQL statements, or workable facsimiles, are provided in the text to assist with independent review and verification of this report and to facilitate finding and correcting the deficiencies reported. Anyone attempting to replicate these results should remember that unless noted otherwise, the data set downloaded on 11/27/21 was used for this report. Different data sets will produce slightly different record counts, hopefully due to the Secretary of State's office diligently working to validate and correct voter registration data.

PART 1 – NAMES, DATES, AND ADDRESSES

NAME DATA INTEGRITY ISSUES

OH SOS dir2021-03, Chapter 3 of the EOM, specifies the following:

Pg 3-21 “County boards of elections must adhere to the data entry standards contained in this Section when entering information into the Statewide Voter Registration Database. Additionally, each board of elections must review its existing records in the SWVRD and make any and all changes necessary to comply with the data entry standards outlined in this Section. By having data in a standardized format, boards will be able to identify additional duplicate records and obtain more accurate results when searching for a voter’s information in the SWVRD.”

Invalid Characters in Names

The EOM continues ... “The following characters must never be entered into any name field: Accent Symbol: ` Colon: : Parenthesis: () Question Mark: ? Apostrophe: ‘ Comma: , Percent Sign: % Quote Marks: “ Asterisk: * Ellipsis: ... Period: . Semicolon: ; Bracket: [] Hyphen/Dash: - Pound Sign: # Slash: / \”

Pg 3-23 “Last Name Field If a voter has a multi-syllable last name with a space or spaces between the syllables, enter the name and omit the space(s) between syllables. For example, the names: MC DONALD, DE LA ROSA, and VAN HUSEN should be entered into the last name field as: MCDONALD, DELAROSA, and VANHUESEN. If a voter has a hyphen in their last name, do not enter the name using a hyphen into the last name field. Instead, use a space to separate two last names.”

The following query produces 11,333 voter records with unallowed characters in the last name data field. 16 records have unpermitted punctuation marks, the remainder have improperly included <space> characters.

```
select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME
from dbo.SWVF_112721
where LAST_NAME like '%[`:()''?',%]*.-#/\]%' or Left([LAST_NAME],4) like '% %'
order by LAST_NAME
```

The following query produces 156 violations of the first name data integrity rules.

```
select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME,
VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721
where FIRST_NAME like '%[`:()''?',%]*.-#/\]%'
```

The table below lists voters with first names and one with last name that consists solely of a punctuation mark. Amazingly, only one of these voters has been flagged as questionable. The others have “Active” status and all but one voted in the last Presidential election.

SOS_VOTERID	COUNTY_NUMBER	LAST_NAME	FIRST_NAME	MIDDLE_NAME	VOTER_STATUS	GENERAL_11_03_2020
OH0019163217	82	.	CY		ACTIVE	X
OH0012310651	22	ANNALEE	.		ACTIVE	X
OH0022596177	47	THREE EAGLE CLOUD	.		ACTIVE	X
OH0015297608	18	IMANI	.		ACTIVE	X
OH0019300264	47	SUNDANCE	.		ACTIVE	

OH0019300249	47	CAROLANNE	.		ACTIVE	X
OH0025920018	67	GURPREET	.		CONFIRMATION	
OH0012273208	57	BARBARAO	.		ACTIVE	X
OH0019761323	29	RAKSHA	.		ACTIVE	X
OH0018734918	46	BLUESILVER	.		ACTIVE	X
OH0023074672	57	DOC	.		ACTIVE	X
OH0011948612	47	LILY	.		ACTIVE	X
OH0019541736	71	KARENKA	.		ACTIVE	X

Note: The SWVF uses an “X” in an election data column to signify a ballot was cast by a voter in that election. A voter with “CONFIRMATION” status is undergoing a confirmation process to verify registration information. The SOS_VOTERID is a number that uniquely identifies a particular registered voter.

The following query produces 417 instances where invalid characters exist in middle names.

```
select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME
from dbo.SWVF_112721
where MIDDLE_NAME like '%[` :()''?',%".*.;-#/\]%'
```

Improper Entry of Last Names and Suffixes

The following query checks for violations of the SoS rule related to multi-syllable last names.

```
select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME
from dbo.SWVF_112721
where LAST_NAME like 'MC %'
order by LAST_NAME
```

229 records have last name beginning MC<space> in violation of the SOS name entry guidelines.

31 records have last name beginning MAC<space>

2915 records have last name beginning VAN<space>

308 records have last name beginning O<space>

1020 records have last name beginning DE<space>

In addition,

- 9 records have suffix III included in the last name field contrary to SOS guidelines.
- 7 records have suffix II included in the last name field contrary to SOS guidelines.
- 9 records have suffix JR included in the last name field contrary to SOS guidelines.
- 5 records have suffix SR included in the last name field contrary to SOS guidelines.

Pg 3-21 of the EOM states “Below is a list of valid suffixes. You should enter only the abbreviation for the suffix. When entering: ‘The Second’, ‘The Third’, etc., you should use a capital “I” and not the number “1”.

Suffixes	Abbreviation
Junior	Jr
Senior	Sr
The Second	II
The Third	III
The Fourth	IV
The Fifth	V
The Sixth	VI

Do not enter professional designations, such as “Esq.” or PhD,” in the suffix field.”

The following query examines suffixes that exist in the SWVF.

```
select SUFFIX, count(*) as Occurences
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where suffix is not null and suffix not like ''
      and suffix not in ('JR', 'SR', 'II', 'III', 'IV', 'V','VI')
group by suffix
order by suffix asc
```

The table below lists suffix entries that are not permitted.

SUFFIX	OCCURRENCES
.	2
\	1
`	1
01	1
0314	1
05	1
06	1
08	1
11	1
111	5
2ND	2
3	1
3RD	2
4TH	2
6601	1
A	10
ANDR	1
ANN	2
B	1
C	1
CJ	1
D	2
DC	3
DDS	1
DEAN	1
DO	3

SUFFIX	OCCURRENCES
DR	5
DVM	1
DWAE	1
E	3
EJ	1
ESQ	2
F	1
FR	1
G	3
GB	1
H	1
I	954
IX	3
J	11
JACK	1
JE	1
JESS	1
JR.	9
L	7
LAMT	1
LEE	1
LL	4
LLL	1
LOUE	1
LPN	1
M	8

SUFFIX	OCCURRENCES
MAE	1
MANL	1
MARE	1
MD	2
MR	8
MRS	5
MS	10
N	1
OLIA	1
PHYS	1
Q	2
R	5
REV	2
RN	1
ROSE	1
S	4
SINH	1
SR.	2
T	1
THOS	1
VII	9
VIII	8
X	1
XAVR	1
XI	3
XII	1

When only certain values are permitted in a data field, it is standard practice to limit the data entry possibilities to only the allowed values. The unallowed values in the NAME and SUFFIX fields indicate that standard data validation practices and data scans to identify and correct data entry errors are not being conducted.

Non-Alphabet Characters in Names

The query below extends the one above by looking for any non-alphabetic characters in the voter’s first, middle, or last names. 2,487 voter records are identified with non-alphabetic characters besides a space character.

```
select SOS_VOTERID, b.[County Name], LAST_NAME, FIRST_NAME, MIDDLE_NAME,
RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_CITY + ', OH ' + RESIDENTIAL_ZIP
as Full_Address, DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS,
GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
```

```

where LAST_NAME like '%[^a-zA-Z ]%' or FIRST_NAME like '%[^a-zA-Z ]%' or
      MIDDLE_NAME like '%[^a-zA-Z ]%'
order by LAST_NAME

```

Most of these issues are hyphenated names, names with accent marks, and names with periods behind initials that were identified in the previous queries. However, some names consisting of numbers are revealed by this query. The table below lists some obviously erroneous entries. More disturbing is that these most of these erroneous records are flagged as active voters with cast ballots in the Nov 2020 Presidential election.

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	VOTER STATUS	GENERAL Nov 2020
OH0010048962	Clark	12255110	12255110		CONFIRMATION	X
OH0010265624	Logan	SIMOVART	7	SCOTT	ACTIVE	X
OH0019163217	Vinton	.	CY		ACTIVE	X
OH0010048962	Clark	12255110	12255110		CONFIRMATION	X
OH0011061958	Ross	9801033	GREGORY	A	ACTIVE	X
OH0026195572	Shelby	99999	REGISTRATION		ACTIVE	

The following query identifies 16 records with either a leading or trailing <space> character which a computer sees as a distinct entry, but a human cannot.

```

Select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME
from dbo.SWVF
where LAST_NAME like '% ' or FIRST_NAME like '% ' or MIDDLE_NAME like '% ' or
      LAST_NAME like ' %' or FIRST_NAME like ' %' or MIDDLE_NAME like ' %'
order by LAST_NAME

```

Abnormal Names – Likely Data Entry Errors

The following query identifies 27 active voter records with only a single digit last name.

```

select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME
from dbo.SWVF
where LAST_NAME like '[A-Z]' and VOTER_STATUS like 'ACTIVE'
order by LAST_NAME

```

The following query identifies 73 active voters (96 registered) with unusually short names with a combined length of first, middle, and last names less than 5 characters.

```

select SOS_VOTERID, COUNTY_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_NAME,
      RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_CITY + ', OH ' + RESIDENTIAL_ZIP
as FullAddress, GENERAL_11_03_2020, GENERAL_11_02_2021
from dbo.SWVF_112721
where (len(LAST_NAME) + len(FIRST_NAME) + len(MIDDLE_NAME)) < 5 and VOTER_STATUS
like 'ACTIVE'

```

Investigators in other states have found many unusually short names to be fraudulent. Many of these may be valid registered voters, but some clearly are not. The table below presents the 73 active voters with questionably short names. The list includes names like “. DOC”, “CY .”, “SIR L”, many of whom voted in the 2020 general election.

SOS_VOTERID	COUNTY NUMBER	LAST NAME	FIRST NAME	MIDDLE NAME	Full Address	GENERAL 11/2020
OH0022675976	25	GU	AN		1507 ELMWOOD AVE, COLUMBUS, OH 43212	X
OH0024969332	25	LI	NA		971 BRYN MAWR DR, GAHANNA, OH 43230	X
OH0026196859	29	WU	DI		2043 TERRACE GLEN CT, DAYTON, OH 45431	

OH0026187164	29	LI	YU		3373 ROSE LAKE CT, BELLBROOK,OH 45305	
OH0025942506	25	XU	YI		2161 HAVERFORD RD, COLUMBUS,OH 43220	X
OH0024866635	75	LU	BO		7122 HARDIN WAPAK, SIDNEY,OH 45365	X
OH0025005248	77	HU	JI		4904 TIMBERCREEK CIR, NORTH CANTON,OH 44720	X
OH0019983361	77	XU	DI		5713 WILLIAMSBURG CIR, HUDSON,OH 44236	X
OH0025560039	18	YU	QI		2373 KENILWORTH RD, CLEVELAND HTS,OH 44106	X
OH0024495069	21	XU	LI		6101 WENTWORTH CT, WESTERVILLE,OH 43082	X
OH0017212100	25	SU	LI		3123 ARLINGTOWNE LN, COLUMBUS,OH 43221	X
OH0022999001	25	DU	KE		2984 STILLMEADOW DR, DUBLIN,OH 43017	X
OH0019824493	25	HE	YU		1419 DENBIGH DR, COLUMBUS,OH 43220	X
OH0022497432	25	LI	NA		4727 VISTA RIDGE DR, DUBLIN,OH 43017	X
OH0021638236	28	YE	LU		139 TILDEN AVE, CHARDON,OH 44024	X
OH0017152245	25	WU	YU		3122 NORTH STAR RD, COLUMBUS,OH 43221	X
OH0023074672	57	DOC	!		620 W GRAND AVE, DAYTON,OH 45406	X
OH0024965185	83	MA	OU		1118 RIVER FOREST DR, MAINEVILLE,OH 45039	X
OH0019163217	82	!	CY		35863 HUSTON RD, RADCLIFF,OH 45695	X
OH0024458852	05	XU	LI		11080 NORTHPOINT DR, ATHENS,OH 45701	X
OH0024504182	18	WU	NI		7020 NAVAJO TRL, SOLON,OH 44139	X
OH0023484227	18	LI	YU		6963 HIGHVIEW DR, SOLON,OH 44139	X
OH0022811541	18	FU	QI		32970 HIRAM TRL, MORELAND HILLS,OH 44022	X
OH0020081907	25	LU	WU		6167 ENKE CT, DUBLIN,OH 43017	X
OH0025081083	32	LU	XU		8386 PLUMWOOD DR, FINDLAY,OH 45840	X
OH0022437476	57	VO	MY		9110 SURREY GATE PL, CENTERVILLE,OH 45458	X
OH0025745951	87	YU	LI		1000 HOLLISTER LN, PERRYSBURG,OH 43551	X
OH0025094681	18	XU	AO		3292 CLAGUE RD, NORTH OLMSTED,OH 44070	
OH0019625430	18	TU	JI		38580 FLANDERS DR, SOLON,OH 44139	X
OH0014622439	18	ROZ	J		4211 LORAIN AVE, CLEVELAND,OH 44113	X
OH0023705888	25	LE	NO		4620 COMMONS PARK DR, NEW ALBANY,OH 43054	X
OH0024475031	25	SU	SU		6338 ANGELES DR, DUBLIN,OH 43016	X
OH0025830350	25	LU	YE		5699 SNOW DR, HILLIARD,OH 43026	X
OH0013743278	31	LU	LU		6530 ROLLYMEADE DR, CINCINNATI,OH 45243	X
OH0025193544	25	SE	NA		6346 HONORATA DR, COLUMBUS,OH 43213	
OH0024461051	50	HU	OU		161 WOLCOTT DR, BOARDMAN,OH 44512	X
OH0022029282	77	GA	MA		1170 MAGNOLIA AVE, AKRON,OH 44310	X
OH0024235869	77	SE	KA		1585 NORLEDGE RD, AKRON,OH 44305	
OH0025490207	09	HA	AN		6299 STRATHAVEN DR, WEST CHESTER,OH 45069	X
OH0023385943	18	TU	YA		2972 ESSEX RD, CLEVELAND HTS,OH 44118	X
OH0022734305	18	YU	LU		5150 HEMINGTON BLVD, SOLON,OH 44139	X
OH0020823440	25	DE	DE		1418 SELKIRK RD, COLUMBUS,OH 43227	
OH0014030112	31	HO	XU		6516 EUCLID AVE, CINCINNATI,OH 45243	X
OH0016981077	25	KE	NY		1338 TRABUE WOODS BLVD, COLUMBUS,OH 43228	X
OH0013774016	31	HO	TO		14 E LAKE SHORE DR, CINCINNATI,OH 45237	X
OH0025007895	25	ZI	NI		5771 TAMPICO DR, GALLOWAY,OH 43119	X
OH0025008736	09	MA	YU		6754 GRIMSBY LN, HAMILTON,OH 45011	X
OH0026060184	25	PAU	A		5145 NORTHCLIFF LOOP W, COLUMBUS,OH 43229	
OH0023423648	31	L	SIR		716 GHOLSON AVE, CINCINNATI,OH 45229	X
OH0024330724	25	YU	LE		6516 WESTBURY DR, DUBLIN,OH 43016	X
OH0021652651	25	BA	BA		3963 CLAREMORRIS ST, CANAL WINCHESTER,OH 43110	X
OH0022099219	32	LI	YU		15316 BENT TREE DR, FINDLAY,OH 45840	X
OH0026054222	77	BI	BI		105 COLONIAL HILLS DR, AKRON,OH 44310	
OH0025878519	77	DU	YI		401 S MAIN ST, AKRON,OH 44311	X
OH0025735821	77	KAT	A		345 KATHERINE AVE, AKRON,OH 44310	X
OH0024260318	18	VO	Y	T	4614 GIFFORD AVE, CLEVELAND,OH 44144	X
OH0025308735	18	MA	YI		31522 ARTHUR RD, SOLON,OH 44139	
OH0015218188	18	LI	BO		7150 LONGVIEW DR, SOLON,OH 44139	X
OH0021337498	31	LI	LI		4600 WILLOW HILLS LN, CINCINNATI,OH 45243	X

OH0019589817	25	XU	KE		6554 WESTON CIR E, DUBLIN,OH 43016	
OH0010173249	29	LI	LI		3611 ARMADA DR, DAYTON,OH 45431	X
OH0019599165	31	YU	YI		4328 VILLA DR, CINCINNATI,OH 45242	X
OH0021310851	25	LI	LI		6784 GORMSLEY DR, REYNOLDSBURG,OH 43068	X
OH0024201345	83	SU	YA		2749 W PEKIN RD, SPRINGBORO,OH 45066	X
OH0022986834	77	MA	JA		678 DAYTON ST, AKRON,OH 44310	X
OH0023914797	05	LI	YI		19 MULLIGAN RD, ATHENS,OH 45701	X
OH0026013288	18	QU	BO		6920 BROADVIEW RD, PARMA,OH 44134	X
OH0017643143	25	DY	LY		6038 LAKEFRONT AVE, HILLIARD,OH 43026	
OH0026197357	83	HU	YI		6423 TALL TIMBERS CT, MASON,OH 45040	
OH0021623066	77	SO	DO		942 GHENT RIDGE DR, AKRON,OH 44333	X
OH0025520263	77	BOW	A		573 MARVIEW AVE, AKRON,OH 44310	
OH0024655099	77	PO	PO		786 DAYTON ST, AKRON,OH 44310	X
OH0026166831	77	KA	JO		881 AVON ST, AKRON,OH 44310	

The following query looks for last names with no vowels. Names with no vowels may be valid, but many invalid entries appear. Invalid entries make it impossible for elections workers to positively identify a voter is registered.

```
select SOS_VOTERID, b.[County Name], LAST_NAME, FIRST_NAME, MIDDLE_NAME,
RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_CITY + ', OH ' + RESIDENTIAL_ZIP
as Full_Address, DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS,
GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where (charindex('A',LAST_NAME,1)=0 and charindex('E',LAST_NAME,1)=0 and
charindex('I',LAST_NAME,1)=0and charindex('O',LAST_NAME,1)=0 and
charindex('U',LAST_NAME,1)=0 and charindex('Y',LAST_NAME,1)=0)
order by LAST_NAME
```

The query produces 321 voter records that have last names with no vowels. The table below highlights some records with invalid data or data that is highly likely to be invalid. Again, many of these voters have active status and voted in the Nov 2020 Presidential election.

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	Full Address	VOTER_STATUS	GENERAL 11_03_2020
OH0019163217	Vinton	.	CY		35863 HUSTON RD, RADCLIFF, OH 45695	ACTIVE	X
OH0010048962	Clark	12255110	12255110		1859 FOX RIDGE DR, SPRINGFIELD, OH 45503	CONFIRMATION	X
OH0011061958	Ross	9801033	GREGORY	A	36 BOWMAN RD, CHILLICOTHE, OH 45601	ACTIVE	X
OH0026195572	Shelby	99999	REGISTRATION		1 INVALID ADDRESS, NONE, OH 00000	ACTIVE	
OH0025005423	Franklin	BK	NIRMALA		4662 TAMARACK BLVD, COLUMBUS, OH 43229	ACTIVE	X
OH0026199119	Wood	C	MARTIN		365 COMMODORE WAY, PERRYSBURG, OH 43551	ACTIVE	
OH0020361475	Ashtabula	CZ	KRISTIN	M	498 E RIVERVIEW DR, AUSTINBURG, OH 44010	ACTIVE	X
OH0026276317	Butler	D	JAMES	STAUBACH	640 MCGUFFEY AVE, OXFORD, OH 45056	ACTIVE	
OH0018408626	Mahoning	DG	SANDRA	L	3925 NEW CASTLE RD, LOWELLVILLE, OH 44436	ACTIVE	X
OH0026038503	Stark	H	DAVID	BRIAN	16566 LOUISVILLE ST NE, HOMEWORTH, OH 44634	ACTIVE	X

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	Full Address	VOTER_STATUS	GENERAL 11_03_2020
OH0023330911	Franklin	HSN	PETER	J	196 W ELEVENTH AVE, COLUMBUS, OH 43210	CONFIRMATION	
OH0024410231	Wood	J	OVERTURF	BAILEY	1082 FAIRVIEW AVE, BOWLING GREEN, OH 43402	CONFIRMATION	
OH0025243798	Clermont	J	HOLMES	INGEBRITT	4157 FOX RUN TRL, CINCINNATI, OH 45255	CONFIRMATION	
OH0019748350	Lucas	K C	KELLY	ANN	2029 STONEHAM RD, TOLEDO, OH 43615	CONFIRMATION	
OH0024369655	Butler	KB	KALPANA		971 BISHOP AVE, HAMILTON, OH 45015	ACTIVE	X
OH0025005531	Franklin	KC	RAJ		4662 TAMARACK BLVD, COLUMBUS, OH 43229	ACTIVE	X
OH0023819708	Franklin	KC	ARJUN	BAHADUR	7023 HUMMOCK POND, REYNOLDSBURG, OH 43068	CONFIRMATION	
OH0026169229	Butler	KC	SAGUNA	SK	3172 DREW DR, HAMILTON, OH 45011	ACTIVE	
OH0025246136	Cuyahoga	KC	RITESH		2849 VAN AKEN BLVD, CLEVELAND, OH 44120	ACTIVE	X
OH0025163916	Franklin	KC	NABIN		393 LAZELLE RD, WESTERVILLE, OH 43081	ACTIVE	X
OH0025891412	Butler	KC	JITENDRA		9522 NATHANIAL LN, FAIRFIELD, OH 45014	ACTIVE	X
OH0025036493	Cuyahoga	KC	SATISH		13792 TRENTON OVAL, STRONGSVILLE, OH 44136	ACTIVE	X
OH0026218374	Fairfield	KC	CHIRAN	K	7236 STONEFALL CT, REYNOLDSBURG, OH 43068	ACTIVE	
OH0023486123	Pickaway	KRC	PEGGY	L	1709 MIAMI TRL, CIRCLEVILLE, OH 43113	ACTIVE	X
OH0026256006	Hancock	L	CARR	HAYLEY	309 W BIGELOW AVE, FINDLAY, OH 45840	CONFIRMATION	
OH0023423648	Hamilton	L	SIR		716 GHOLSON AVE, CINCINNATI, OH 45229	ACTIVE	X
OH0018829770	Delaware	LTHRM	NADIA	RAGAB	2969 LAURA PL, LEWIS CENTER, OH 43035	ACTIVE	X
OH0024089213	Clark	M	SARAH	L	209 DEERFIELD DR, NEW CARLISLE, OH 45344	CONFIRMATION	
OH0024436415	Warren	M	JOAN		727 DOGWOOD CT, LEBANON, OH 45036	ACTIVE	X
OH0025980480	Butler	M	CHOUWAN	MAN	6366 JAMESFIELD CT, FAIRFIELD, OH 45014	ACTIVE	X
OH0015031368	Cuyahoga	Q	RUTH	ERNEST	5500 SOUTH BLVD, MAPLE HTS, OH 44137	ACTIVE	X
OH0023862321	Hamilton	R	PHILLIPS		2612 STANTON AVE, CINCINNATI, OH 45206	CONFIRMATION	
OH0013512635	Butler	S	DAVID	L	1883 BLACK RD, HAMILTON, OH 45013	ACTIVE	X
OH0021589853	Cuyahoga	S	ANDRE	WOOD	125 E 156TH ST, CLEVELAND, OH 44110	ACTIVE	X
OH0014613197	Cuyahoga	SMRT	LOIS	J	9411 W MORELAND RD, PARMA, OH 44129	ACTIVE	X
OH0026237968	Cuyahoga	SMRZ	STACY	ANN	27660 SERVICEBERRY CT, WESTLAKE, OH 44145	ACTIVE	X
OH0015249165	Cuyahoga	SMTH	TIMOTHY	E	14401 DETROIT AVE, LAKEWOOD, OH 44107	ACTIVE	

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	Full Address	VOTER_STATUS	GENERAL 11_03_2020
OH0024081286	Hamilton	SMTH	TOMMY		2709 HILLVISTA LN, CINCINNATI, OH 45239	ACTIVE	X
OH0025941175	Butler	SRB	JOHN	ALEXANDER	5588 AZALEA WAY, WEST CHESTER, OH 45069	ACTIVE	X
OH0022471610	Butler	THDND	GURPREET	SINGH	7785 ROCK PORT WAY, WEST CHESTER, OH 45069	ACTIVE	X
OH0026250324	Jackson	TRTTN	NINA		247 S DAVID AVE, JACKSON, OH 45640	CONFIRMATION	
OH0025305180	Perry	TVRZ	NATHANIAL	JAMES	7123 BOUNDARIES RD, THORNVILLE, OH 43076	CONFIRMATION	
OH0013645608	Hamilton	X	VERLINZA	ANN	1636 CALIFORNIA AVE, CINCINNATI, OH 45237	ACTIVE	X
OH0022747098	Franklin	X	DALJI	IMARA	1190 STUDER AVE, COLUMBUS, OH 43206	ACTIVE	
OH0022619374	Stark	X	AKENRA		450 MAPLEWOOD DR, ALLIANCE, OH 44601	ACTIVE	X
OH0023503142	Franklin	X	MAKEDA	T	1190 STUDER AVE, COLUMBUS, OH 43206	ACTIVE	X
OH0025066433	Cuyahoga	X	DONALD		16211 S LOTUS DR, CLEVELAND, OH 44128	ACTIVE	
OH0022255102	Franklin	X	KRISTIN	ANNE	879 E DUBLIN GRANVILLE RD, COLUMBUS, OH 43229	ACTIVE	
OH0023069799	Stark	X	TRISHA	A	450 MAPLEWOOD DR, ALLIANCE, OH 44601	ACTIVE	X
OH0013930588	Hamilton	X	LEAH		4025 PADDOCK RD, CINCINNATI, OH 45229	ACTIVE	X
OH0022940369	Hamilton	X	NAJAH		3305 BRODBECK PL, CINCINNATI, OH 45211	ACTIVE	X
OH0022876229	Stark	X	GEMINI		1227 WERTZ AVE SW, CANTON, OH 44710	ACTIVE	X
OH0023682215	Franklin	X	ZOWIE	FERAL	5816 CHATFORD DR, COLUMBUS, OH 43232	ACTIVE	
OH0020242805	Greene	X	SCHIRZAR		842 CHAPELGATE DR, FAIRBORN, OH 45324	ACTIVE	X
OH0024488720	Stark	XX	TAKARA		700 MCKINLEY AVE NW, CANTON, OH 44703	CONFIRMATION	

Conclusions

The data integrity rules exist to prevent duplicate registrations due to variations in how names are entered into the database. The number and variety of errors within the first, middle, and last name fields show an overall lack of integrity in the statewide voter files. The data demonstrate that there is little control over data entry and that simple, routine, and obvious quality checks non the data are not being performed. Many obvious errors exist, which makes it likely that many of the suspicious entries are also errors. Questionable names need to be investigated to determine if the registrations are legitimate and removed from the database if invalid. Investigations are necessary to determine how persons with names such as Gregory A 9801033, <period> DOC, CY <period>, SIR L, and many others are registered, and become active voters with votes cast under those registrations in the Nov 2020 Presidential election. Persons responsible for casting those votes and allowing those votes to be cast should be held accountable. Software to prevent invalid entries needs to be implemented. The Secretary

of State must conduct the annual audit of the statewide voter registration database that is required by law.

DATE INTEGRITY ISSUES

Chapter 3, Section 1.04 of the EOM states the following with respect to dates:

“An applicant must provide their date of birth on the application.”

“In entering a registration date into the voter registration system, a person is not considered to be registered until the valid voter registration form has been received, which may or may not be the same as the date the applicant completed or signed the form.”

In addition, we can also infer:

- 1) Persons must be 18 years of age prior to any general election.
- 2) Registration dates should be no sooner than 17 years after a birth date.
- 3) Registration dates should be no sooner than 30 days before an election.
- 4) Government offices, including Boards of Election and the US Postal Service, are not open for business and do not process voter registrations on holidays.

According to CNN, the oldest person in the US as of April 2021 was 114 years old. Any registered voters older than that are likely deceased.

Several queries were run against the State Wide Voter File to identify potential issues involving registration dates and dates of birth of registered voters.

Really Old Voters

The following query was run to determine whether any registered voters were 114 years old and older, the age of the oldest American according to CNN.

```
select datediff(year,DATE_OF_BIRTH,'2021-11-27') as Age,
       count(*) as NumVoters,
       sum(case when GENERAL_11_03_2020 like 'X' then 1 else 0 end) as
       NumNov2020Votes
from dbo.SWVF_112721
where datediff(year,DATE_OF_BIRTH,'2021-11-27') > 113
group by datediff(year,DATE_OF_BIRTH,'2021-11-27')
order by Age
```

The table below lists the results of the query. The voters that are 121 and 221 years old are registrations with invalid birth dates of 1/1/1900 and 1/1/1800 respectively. Regardless, based on the data presented in the statewide voter registration database we can with certainty that dead people voted in Ohio in the Nov 2020 Presidential election.

Age	Voters	Nov 2020 Votes
114	3	0
115	6	4
116	5	1
117	4	2
118	4	1

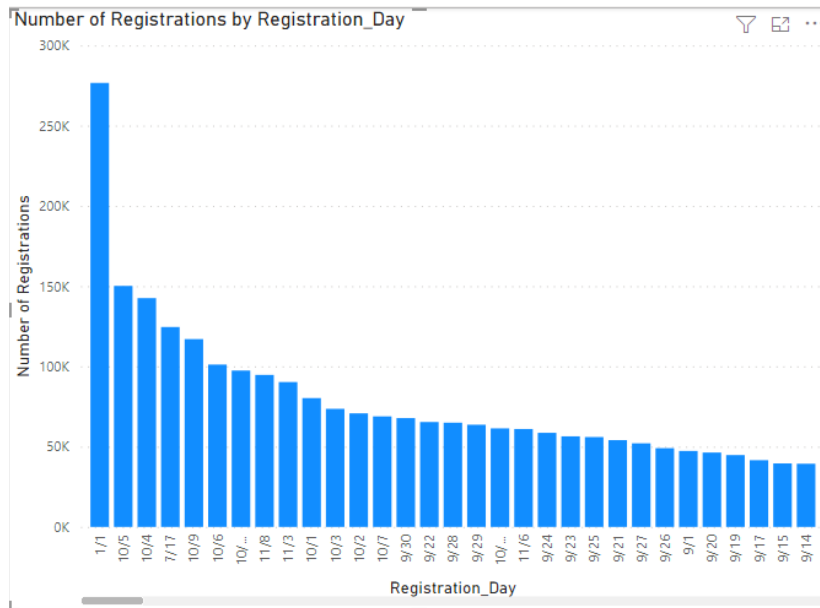
Age	Voters	Nov 2020 Votes
119	1	0
120	23	10
121	112	42
122	2	2
135	1	0
221	700	92

Registered on a Holiday

The following query identifies voters with voter registrations posted as January 1.

```
select REGISTRATION_DATE, PARTY_AFFILIATION, SOS_VOTERID, COUNTY_ID, [County
Name], VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
a.COUNTY_NUMBER=b.County_Number
where MONTH(REGISTRATION_DATE)=1 and Day(REGISTRATION_DATE)=1 and VOTER_STATUS
like 'ACTIVE%' and GENERAL_11_03_2020 like 'X'
order by REGISTRATION_DATE desc
```

The query produces 277,625 voter registrations with the registration date of January 1 in various years. 259,965 are active voters and **251,000 voted on 11/3/2020**. Who would have guessed that in Ohio registering to vote is such a popular way to ring in the New Year? These are curious because government offices are closed on January 1, and experience tells us that while registering to vote might be a good resolution, most people are doing other things on New Year’s Day. The preponderance of January 1 registrations occurs in Franklin, Cuyahoga, and Huron counties, but many counties have voters registered on January 1. The following chart shows the number of voter registrations that occur on January 1 in perspective with other days of the year.



1/1/YYYY is not an artifact of historical voter registrations. Of the 251,000 Nov 2020 voters registered on 1 January, 1,466 of these registrations are dated January 1, 2021, 198 more are dated 1/1/2020, and on it goes. 59,553 Nov 2020 voters have registrations dated 1/1/1900, which appears to be a default date when no date is entered into the SWVF. An investigation should be undertaken to determine how and

why this occurs. Regardless, it is apparent that neither data validation to prevent, nor database maintenance to find and correct, these errors is performed.

The following query mirrors the ones above but checks for registrations that occur on December 25.

```
select REGISTRATION_DATE, PARTY_AFFILIATION, SOS_VOTERID, COUNTY_ID, [County
Name], VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
a.COUNTY_NUMBER=b.County_Number
where MONTH(REGISTRATION_DATE)=12 and Day(REGISTRATION_DATE)=25 and VOTER_STATUS
like 'ACTIVE%' and GENERAL_11_03_2020 like 'X'
order by REGISTRATION_DATE desc
```

Of 358 voters that were registered on Christmas Day, 250 voted in the Nov 2020 Presidential election. 23 persons that voted on 11/3/20 were registered on 12/25/2020, after the election.

REGISTRATION DATE	SOS_VOTERID	COUNTY_ID	County Name	VOTER STATUS	GENERAL 11_03_2020
2020-12-25	OH0023648797	6167189	Clermont	ACTIVE	X
2020-12-25	OH0015877521	104001345	Mercer	ACTIVE	X
2020-12-25	OH0026119673	02075225	Hamilton	ACTIVE	X
2020-12-25	OH0026117108	30174922	Lorain	ACTIVE	X
2020-12-25	OH0019671157	2315833	Cuyahoga	ACTIVE	X
2020-12-25	OH0025722393	714436	Butler	ACTIVE	X
2020-12-25	OH0026119498	171173	Geauga	ACTIVE	X
2020-12-25	OH0026119067	9761192	Muskingum	ACTIVE	X
2020-12-25	OH0026138681	6220581	Clermont	ACTIVE	X
2020-12-25	OH0026117565	200081545	Franklin	ACTIVE	X
2020-12-25	OH0026119658	02075229	Hamilton	ACTIVE	X
2020-12-25	OH0026117110	30174923	Lorain	ACTIVE	X
2020-12-25	OH0022973730	2653694	Cuyahoga	ACTIVE	X
2020-12-25	OH0017902844	36812	Morrow	ACTIVE	X
2020-12-25	OH0026119497	171172	Geauga	ACTIVE	X
2020-12-25	OH0026119078	9761191	Muskingum	ACTIVE	X
2020-12-25	OH0026118978	937132	Licking	ACTIVE	X
2020-12-25	OH0026116893	341235	Warren	ACTIVE	X
2020-12-25	OH0025863904	451808	Trumbull	ACTIVE	X
2020-12-25	OH0026116892	341236	Warren	ACTIVE	X
2020-12-25	OH0020077667	2376656	Cuyahoga	ACTIVE	X
2020-12-25	OH0020827378	2434594	Cuyahoga	ACTIVE	X
2020-12-25	OH0026116882	922058	Summit	ACTIVE	X

The following query mirrors the one above but checks for registrations that occur on the July 4 holiday.

```
select REGISTRATION_DATE, PARTY_AFFILIATION, SOS_VOTERID, COUNTY_ID, [County
Name], VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
a.COUNTY_NUMBER=b.County_Number
where MONTH(REGISTRATION_DATE)=7 and Day(REGISTRATION_DATE)=4 and VOTER_STATUS
like 'ACTIVE%' and GENERAL_11_03_2020 like 'X'
order by REGISTRATION_DATE desc
```

The query produces 3232 voters with a July 4 registration date. 2741 are active voters and 2446 voted on 11/3/2020. Registering to vote on the 4th of July may seem like a patriotic way to celebrate, but Chapter 3, Section 1.04 of the EOM for processing voter registrations notes that “In entering a date into the voter registration system, a person is not considered registered until the valid registration form has

been received.” Thus, a valid registration date should not occur on a state or federal holiday since government offices are closed and mail is not delivered.

Further analysis reveals registration dates coinciding with other federal holidays.

Registered Prior to Birth

The following query identifies 63,887 registered voters, 61,657 active, and 59,724 that voted in the Nov 2020 Presidential election that were registered before their birth date.

```
select  SOS_VOTERID, COUNTY_ID, b.[County Name], REGISTRATION_DATE, DATE_OF_BIRTH,
        VOTER_STATUS, GENERAL_11_03_2020
from    dbo.SWVF_112721 a inner join dbo.OH_Counties b on
        a.COUNTY_NUMBER=b.County_Number
where   REGISTRATION_DATE <= DATE_OF_BIRTH
```

However, 63,664 of these records have the invalid registration date of 1/1/1900. Modifying the query as follows removes those records from the data set.

```
select  SOS_VOTERID, b.[County Name], REGISTRATION_DATE, DATE_OF_BIRTH,
        VOTER_STATUS, GENERAL_11_03_2020
from    dbo.SWVF_112721 a inner join dbo.OH_Counties b on
        a.COUNTY_NUMBER=b.County_Number
where   REGISTRATION_DATE <= DATE_OF_BIRTH and REGISTRATION_DATE <> '1900-01-01'
and     VOTER_STATUS like 'ACTIVE' and GENERAL_11_03_2020 like 'X'
```

Still, 223 voters have registration dates prior to their birth date, 204 are active voters, and 171 voted in the Nov 2020 Presidential election on 11/3/20.

Invalid Date of Birth

The EOM, Chapter 3, section 1.04 states that to be registered to vote “an applicant must provide a date of birth on their application”. Therefore, any voter registration record with an invalid date or empty date of birth field is an invalid registration that should be rejected.

The following query searches for invalid birth dates.

```
select  SOS_VOTERID, COUNTY_NUMBER, VOTER_STATUS, DATE_OF_BIRTH, REGISTRATION_DATE,
        Datediff(year,REGISTRATION_DATE,DATE_OF_BIRTH) as AgeAtRegistration,
        GENERAL_11_03_2020
from    dbo.SWVF_112721
where   DATE_OF_BIRTH is null or len(DATE_OF_BIRTH) < 10 or DATE_OF_BIRTH <='1900-
        01-01'
and     VOTER_STATUS like 'ACTIVE' and GENERAL_11_03_2020 like 'X'
order  by DATE_OF_BIRTH -- 796 rows, 180 Active, 127 voted 11/3/20
```

796 voters have a birth date of 1/1/1900 or earlier, 180 of whom have active status and 127 of whom voted in the 11/3/20 election.

Invalid Registration Dates

The following query repeats the one above to check for invalid voter registration dates.

```
select  SOS_VOTERID, COUNTY_NUMBER, VOTER_STATUS, DATE_OF_BIRTH, REGISTRATION_DATE,
        Datediff(year,REGISTRATION_DATE,DATE_OF_BIRTH) as AgeAtRegistration,
        GENERAL_11_03_2020
from    dbo.SWVF_112721
```

```

where REGISTRATION_DATE is null or len(REGISTRATION_DATE) < 10 or
      REGISTRATION_DATE <='1900-01-01'
      and VOTER_STATUS like 'ACTIVE' and GENERAL_11_03_2020 like 'X'
order by REGISTRATION_DATE -- 63,664 rows, 61,453 active, 59,533 voted 11/3/20

```

63,664 voters have an invalid registration date of 1/1/1900 or earlier. 61,453 have active status, and 59,533 voted in the 11/3/20 election.

Allowed to Register When Too Young

Ohio election law permits persons 17 years old may be register to vote as long as they will be 18 years old before the next general election. The following query identifies voters whose record indicates they registered despite not being 18 years old before the 11/3/2020 general election.

```

select SOS_VOTERID, COUNTY_ID, b.[County Name], DATE_OF_BIRTH,
      Dateadd(year,18,DATE_OF_BIRTH) as DateOf18thBDAY,
      REGISTRATION_DATE, datediff(day,'11-3-2020',Dateadd(year,18,DATE_OF_BIRTH))
      as DaysFromEligibility,
      VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
      a.COUNTY_NUMBER=b.County_Number
where dateadd(year,18,DATE_OF_BIRTH) > '11-3-2020' and REGISTRATION_DATE < '11-3-
      2020'
order by datediff(day,'11-3-2020',Dateadd(year,18,DATE_OF_BIRTH)) desc

```

In all, the query identifies **253 voters that were permitted to register before the law permits**. The table below is a partial list of results from this query.

SOS_VOTERID	COUNTY_ID	County Name	DATE OF BIRTH	Date Of 18 th BDAY	REGISTRATION DATE	Days From Eligibility	VOTER STATUS
OH0026326911	446598	Wood	2004-07-09	2022-07-09	2020-05-14	613	CONFIRMATION
OH0026139190	526923	Mahoning	2003-11-01	2021-11-01	2020-01-26	363	ACTIVE
OH0026144890	10327078	Highland	2003-10-23	2021-10-23	2020-10-02	354	ACTIVE
OH0026144896	10327083	Highland	2003-10-19	2021-10-19	2020-09-29	350	ACTIVE
OH0026164090	102873	Shelby	2003-10-14	2021-10-14	2020-10-09	345	ACTIVE
OH0026272135	728854	Butler	2003-10-12	2021-10-12	2020-10-22	343	CONFIRMATION
OH0026164095	102876	Shelby	2003-10-12	2021-10-12	2020-10-09	343	ACTIVE
OH0026331436	304643	Delaware	2003-10-08	2021-10-08	2020-09-29	339	ACTIVE
OH0025887207	9660083	Union	2003-10-01	2021-10-01	2020-09-23	332	ACTIVE
OH0026144984	10327354	Highland	2003-09-29	2021-09-29	2020-10-28	330	ACTIVE
OH0026121750	186522	Marion	2003-09-29	2021-09-29	2020-11-02	330	ACTIVE
OH0026272136	733513	Butler	2003-09-27	2021-09-27	2020-10-12	328	ACTIVE
OH0026164103	102879	Shelby	2003-09-21	2021-09-21	2020-10-09	322	ACTIVE
OH0026144983	10327286	Highland	2003-09-21	2021-09-21	2020-09-30	322	ACTIVE
OH0026261419	200048753	Franklin	2003-09-19	2021-09-19	2020-09-13	320	ACTIVE
OH0026145011	10327284	Highland	2003-09-19	2021-09-19	2020-09-30	320	ACTIVE
OH0026305718	301516	Medina	2003-09-11	2021-09-11	2010-09-22	312	ACTIVE
OH0026084464	454663	Wood	2003-09-03	2021-09-03	2020-10-27	304	ACTIVE

Repeating the above, but focusing on the 11/2/21 election, the table below is a partial listing of the 114 voters that were ineligible to register but nevertheless were registered prior to the 11/2/21 election.

SOS_VOTERID	COUNTY_ID	County Name	DATE OF BIRTH	Date Of 18 th BDAY	REGISTRATION DATE	Days From Eligibility	VOTER STATUS
OH0026323552	48889	Pike	2005-02-07	2023-02-07	2021-10-20	462	CONFIRMATION
OH0026336161	460492	Trumbull	2004-10-31	2022-10-31	2021-10-29	363	CONFIRMATION
OH0026289211	10307234	Monroe	2004-10-27	2022-10-27	2021-09-21	359	ACTIVE
OH0026312088	9653079	Ashland	2004-10-11	2022-10-11	2021-10-04	343	ACTIVE
OH0026312065	9653078	Ashland	2004-10-02	2022-10-02	2021-10-04	334	ACTIVE

SOS_VOTERID	COUNTY_ID	County Name	DATE OF BIRTH	Date Of 18 th BDAY	REGISTRATION DATE	Days From Eligibility	VOTER STATUS
OH0026311943	9653069	Ashland	2004-09-28	2022-09-28	2021-10-04	330	ACTIVE
OH0026311938	9653067	Ashland	2004-09-16	2022-09-16	2021-10-04	318	ACTIVE
OH0026312028	9653075	Ashland	2004-09-14	2022-09-14	2021-10-04	316	ACTIVE
OH0026311886	9653064	Ashland	2004-08-31	2022-08-31	2021-10-04	302	ACTIVE
OH0026289202	10307232	Monroe	2004-08-26	2022-08-26	2021-09-21	297	CONFIRMATION
OH0026311897	9653065	Ashland	2004-08-24	2022-08-24	2021-10-04	295	ACTIVE
OH0026323532	48888	Pike	2004-08-11	2022-08-11	2021-10-04	282	ACTIVE
OH0026294203	10307259	Monroe	2004-07-29	2022-07-29	2021-09-24	269	ACTIVE
OH0026255999	103727	Shelby	2004-07-29	2022-07-29	2021-08-13	269	ACTIVE
OH0026311962	9653070	Ashland	2004-07-28	2022-07-28	2021-10-04	268	ACTIVE

The following query identifies 3,730 registered voters with a registration date prior to their 17th birthday. 2,988 have active status and 2,554 voted on 11/3/2020. The query excludes the invalid registration date 1/1/1900 from the results.

```
select SOS_VOTERID, COUNTY_NUMBER, VOTER_STATUS, DATE_OF_BIRTH, Dateadd(year,
    17,DATE_OF_BIRTH) as DateOf17thBDAY,
    REGISTRATION_DATE, Datediff(year,DATE_OF_BIRTH, REGISTRATION_DATE) as
    AgeAtRegistration, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721
where REGISTRATION_DATE <= DATEADD(year,17,DATE_OF_BIRTH)
and REGISTRATION_DATE <> '1900-01-01' and VOTER_STATUS like 'ACTIVE'
and GENERAL_11_03_2020 like 'X'
```

Voted Before Birth

The following query identifies 5 voters that **voted before they were born**:

```
select SOS_VOTERID, b.[County Name], VOTER_STATUS, DATE_OF_BIRTH,
    REGISTRATION_DATE
    , GENERAL_11_07_2000, GENERAL_11_06_2001, GENERAL_11_05_2002,
    GENERAL_11_04_2003
    , GENERAL_11_02_2004, GENERAL_11_08_2005, GENERAL_11_07_2006,
    GENERAL_11_06_2007
    , GENERAL_11_04_2008, GENERAL_11_03_2009, GENERAL_11_02_2010,
    GENERAL_11_08_2011
    , GENERAL_11_06_2012, GENERAL_11_05_2013, GENERAL_11_04_2014,
    GENERAL_11_03_2015
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
    a.COUNTY_NUMBER=b.County_Number
where
    (DATE_OF_BIRTH > '11-02-2010' and GENERAL_11_02_2010 like 'X')
    or (DATE_OF_BIRTH > '11-02-2004' and GENERAL_11_02_2004 like 'X')
    or (DATE_OF_BIRTH > '11-03-2009' and GENERAL_11_03_2009 like 'X')
    or (DATE_OF_BIRTH > '11-03-2015' and GENERAL_11_03_2015 like 'X')
    or (DATE_OF_BIRTH > '11-03-2020' and GENERAL_11_03_2020 like 'X')
    or (DATE_OF_BIRTH > '11-04-2003' and GENERAL_11_04_2003 like 'X')
    or (DATE_OF_BIRTH > '11-04-2008' and GENERAL_11_04_2008 like 'X')
    or (DATE_OF_BIRTH > '11-04-2014' and GENERAL_11_04_2014 like 'X')
    or (DATE_OF_BIRTH > '11-05-2002' and GENERAL_11_05_2002 like 'X')
    or (DATE_OF_BIRTH > '11-05-2013' and GENERAL_11_05_2013 like 'X')
    or (DATE_OF_BIRTH > '11-05-2019' and GENERAL_11_05_2019 like 'X')
    or (DATE_OF_BIRTH > '11-06-2001' and GENERAL_11_06_2001 like 'X')
    or (DATE_OF_BIRTH > '11-06-2007' and GENERAL_11_06_2007 like 'X')
    or (DATE_OF_BIRTH > '11-06-2012' and GENERAL_11_06_2012 like 'X')
    or (DATE_OF_BIRTH > '11-06-2018' and GENERAL_11_06_2018 like 'X')
```

```

or (DATE_OF_BIRTH > '11-07-2000' and GENERAL_11_07_2000 like 'X')
or (DATE_OF_BIRTH > '11-07-2006' and GENERAL_11_07_2006 like 'X')
or (DATE_OF_BIRTH > '11-07-2017' and GENERAL_11_07_2017 like 'X')
or (DATE_OF_BIRTH > '11-08-2005' and GENERAL_11_08_2005 like 'X')
or (DATE_OF_BIRTH > '11-08-2011' and GENERAL_11_08_2011 like 'X')
or (DATE_OF_BIRTH > '11-08-2016' and GENERAL_11_08_2016 like 'X')

```

SOS_VOTERID	County Name	VOTER_STATUS	DATE_OF_BIRTH	REGISTRATION_DATE	GENERAL_11_07_2000
OH0025106854	Ashland	ACTIVE	2001-06-06	2019-05-30	X
OH0025535711	Hamilton	ACTIVE	2001-04-25	2020-04-27	X
OH0025393803	Lorain	ACTIVE	2001-03-15	2020-02-06	X
OH0025734466	Clermont	ACTIVE	2001-01-03	2020-08-06	X
OH0025711911	Clermont	ACTIVE	2001-06-29	2020-09-20	X

Voted Prior to 18th Birthday

The following query identifies 724 voters that voted in a general election prior to their 18th birthday.

```

select SOS_VOTERID, COUNTY_NUMBER, VOTER_STATUS, DATE_OF_BIRTH,
Dateadd(year,18,DATE_OF_BIRTH) as DateOf18thBDAY, REGISTRATION_DATE
, GENERAL_11_07_2000, GENERAL_11_06_2001, GENERAL_11_05_2002,
GENERAL_11_04_2003
, GENERAL_11_02_2004, GENERAL_11_08_2005, GENERAL_11_07_2006,
GENERAL_11_06_2007
, GENERAL_11_04_2008, GENERAL_11_03_2009, GENERAL_11_02_2010,
GENERAL_11_08_2011
, GENERAL_11_06_2012, GENERAL_11_05_2013, GENERAL_11_04_2014,
GENERAL_11_03_2015
, GENERAL_11_08_2016, GENERAL_11_07_2017, GENERAL_11_06_2018,
GENERAL_11_05_2019, GENERAL_11_03_2020
from dbo.SWVF_112721
where
(Dateadd(year,18,DATE_OF_BIRTH) > '11-02-2010' and GENERAL_11_02_2010 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-02-2004' and GENERAL_11_02_2004 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-03-2009' and GENERAL_11_03_2009 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-03-2015' and GENERAL_11_03_2015 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-03-2020' and GENERAL_11_03_2020 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-04-2003' and GENERAL_11_04_2003 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-04-2008' and GENERAL_11_04_2008 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-04-2014' and GENERAL_11_04_2014 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-05-2002' and GENERAL_11_05_2002 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-05-2013' and GENERAL_11_05_2013 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-05-2019' and GENERAL_11_05_2019 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-06-2001' and GENERAL_11_06_2001 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-06-2007' and GENERAL_11_06_2007 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-06-2012' and GENERAL_11_06_2012 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-06-2018' and GENERAL_11_06_2018 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-07-2000' and GENERAL_11_07_2000 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-07-2006' and GENERAL_11_07_2006 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-07-2017' and GENERAL_11_07_2017 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-08-2005' and GENERAL_11_08_2005 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-08-2011' and GENERAL_11_08_2011 like 'X')
or (Dateadd(year,18,DATE_OF_BIRTH) > '11-08-2016' and GENERAL_11_08_2016 like 'X')

```

The table below is a partial listing of those records.

SOS VOTERID	DATE OF BIRTH	Date Of 18 th BDAY	REGISTRATION DATE	GENERAL 11_07_2000	GENERAL 11_06_2001	GENERAL 11_05_2002	GENERAL 11_04_2003	GENERAL 11_02_2004
OH0024433588	1995-02-24	2013-02-24	2017-10-20	X		X		X
OH0026086209	1989-06-16	2007-06-16	2020-11-23	X	X	X		
OH0011716813	1991-02-21	2009-02-21	2014-07-11					X
OH0015174923	1987-06-04	2005-06-04	2013-09-03	X	X	X		
OH0025734466	2001-01-03	2019-01-03	2020-08-06	X	X			X
OH0016304182	1989-10-30	2007-10-30	2002-07-15				X	X
OH0022452171	1993-05-07	2011-05-07	2013-06-25	X		X	X	X
OH0023700783	1989-09-26	2007-09-26	2017-10-06	X	X	X		

Conclusions

It is apparent that neither data validation to prevent, nor database maintenance to find and correct, date related errors is being performed. Each voter record that indicates a vote prior the voter’s birth date should be investigated to discover whether the registration is legitimate and whether the person responsible for the vote is involved in criminal activity. The process that allows this to occur must be fixed. Each voter record that violates basic election tenants such as being 18 years old to vote should be investigated to verify that the voter registration is legitimate. Persons responsible for entering that data should be identified and questioned to determine the reason bad data entry occurred. Voters with invalid registration dates or invalid birth dates should be contacted to get corrected information and verify their registration. An investigation should be conducted to understand how voter registration occurs on federal holidays when offices are closed and mail is not delivered. Software changes to prevent entry of invalid dates must be implemented. Annual audits of the database should be conducted by the Secretary of State as required by law.

ADDRESS DATA INTEGRITY ISSUES

Accurate voter addresses are an important element of the voting process. Accurate addresses ensure that a voter receives the correct ballot and therefore votes on local issues relevant to the voter’s district. Addresses are also an important tool to identify fraud and prevent persons from registering in multiple jurisdictions.

Invalid Data Entry

In the Election Official Manual, the SoS has instituted requirements for entering addresses into the voter registration system. Board of Elections must enter address according to US Postal Service standards. All data in the address field must be in UPPERCASE letters. The name of a city must be spelled out completely or abbreviated using USPS approved abbreviations. The following characters must never be entered into an address field:

Accent Symbol: ` Colon: : Parenthesis: () Question Mark: ? Apostrophe: ‘ Comma: , Percent Sign: % Quote Marks: “ Asterisk: * Ellipsis: ... Period: . Semicolon: ; Bracket: [], Pound Sign: # * Slash: / \

Hyphens/dashes are only permitted between the ZIP code and the plus 4 code or a house number that has a hyphenated number.

The following query identifies 4970 records with unallowed characters in the street address.

```
select SOS_VOTERID, b.[County Name], RESIDENTIAL_ADDRESS1,
replace(RESIDENTIAL_ADDRESS1 + ' ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
RESIDENTIAL_CITY + ', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP, ' ',
') as Full_Address,
```

```

DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where RESIDENTIAL_ADDRESS1 like '%[`()'?',%".{ };-#\]%'

```

The Election Official Manual also provides standards for entering secondary address indicators such as apartment numbers, unit numbers, etc. The following query searched the SWVF and identifies 19,738 records with secondary indicators that do not contain the standard USPS secondary indicators.

```

select SOS_VOTERID, b.[County Name], RESIDENTIAL_SECONDARY_ADDR,
       replace(RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
RESIDENTIAL_CITY + ', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP,', ',
',', ') as Full_Address
,DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where RESIDENTIAL_SECONDARY_ADDR not like '%APT%'
and RESIDENTIAL_SECONDARY_ADDR not like '%LBBY%'
and RESIDENTIAL_SECONDARY_ADDR not like '%SIDE%'
and RESIDENTIAL_SECONDARY_ADDR not like '%BSMT%'
and RESIDENTIAL_SECONDARY_ADDR not like '%LOT%'
and RESIDENTIAL_SECONDARY_ADDR not like '%SLIP%'
and RESIDENTIAL_SECONDARY_ADDR not like '%BLDG%'
and RESIDENTIAL_SECONDARY_ADDR not like '%LOWR%'
and RESIDENTIAL_SECONDARY_ADDR not like '%SPC%'
and RESIDENTIAL_SECONDARY_ADDR not like '%DEPT%'
and RESIDENTIAL_SECONDARY_ADDR not like '%OFC%'
and RESIDENTIAL_SECONDARY_ADDR not like '%STOP%'
and RESIDENTIAL_SECONDARY_ADDR not like '%FL%'
and RESIDENTIAL_SECONDARY_ADDR not like '%PH%'
and RESIDENTIAL_SECONDARY_ADDR not like '%STE%'
and RESIDENTIAL_SECONDARY_ADDR not like '%FRNT%'
and RESIDENTIAL_SECONDARY_ADDR not like '%PIER%'
and RESIDENTIAL_SECONDARY_ADDR not like '%TRLR%'
and RESIDENTIAL_SECONDARY_ADDR not like '%HNGR%'
and RESIDENTIAL_SECONDARY_ADDR not like '%REAR%'
and RESIDENTIAL_SECONDARY_ADDR not like '%UNIT%'
and RESIDENTIAL_SECONDARY_ADDR not like '%KEY%'
and RESIDENTIAL_SECONDARY_ADDR not like '%RM%'
and RESIDENTIAL_SECONDARY_ADDR not like '%UPPR%'
and RESIDENTIAL_SECONDARY_ADDR not like ''
and RESIDENTIAL_SECONDARY_ADDR is not null

```

This table shows a few examples of improper secondary addresses.

SOS_VOTERID	County Name	RESIDENTIAL_SECONDARY_ADDR	Full_Address
OH0014672244	Cuyahoga	204 E	27661 TUNGSTEN RD, 204 E, EUCLID, OH 44132
OH0015143330	Cuyahoga	E209	551 FORESTVIEW RD, E209, BAY VILLAGE, OH 44140
OH0020388794	Clermont	B	1028 CLOUGH PIKE, B, CINCINNATI, OH 45245
OH0015045408	Cuyahoga	Z-18	9627 PLEASANT LAKE BLVD, Z-18, PARMA, OH 44130
OH0018726074	Cuyahoga	210B	27068 OAKWOOD DR, 210B, OLMSTED TWP, OH 44138
OH0015331392	Cuyahoga	1	18693 HILLIARD BLVD, 1, ROCKY RIVER, OH 44116
OH0019979602	Cuyahoga	UP	3705 E 153RD ST, UP, CLEVELAND, OH 44120
OH0022249400	Cuyahoga	E124	27100 CEDAR RD, E124, BEACHWOOD, OH 44122
OH0015195351	Cuyahoga	DWN	789 WAYSIDE RD, DWN, CLEVELAND, OH 44110
OH0021488506	Cuyahoga	P 9	2820 N BAY DR, P 9, WESTLAKE, OH 44145
OH0026239590	Erie	A	1602 DIETRICK ST, A, SANDUSKY, OH 44870
OH0019159756	Defiance	# 5	195 W ROSEWOOD AVE, # 5, DEFIANCE, OH 43512
OH0014617220	Cuyahoga	T301	9934 PLEASANT LAKE BLVD, T301, PARMA, OH 44130

The EOM provides standards for entering addresses on county, state, and interstate highways. In summary, the standard is to spell out completely the words “state”, “county”, “township”, “route”, “highway”, and “interstate”. The abbreviations “RT”, “RTE”, “HWY”, “RD”, “SR”, “ST”, and “TSR” are to be avoided. The following query checks for highway designations that do not meet the standard.

```
select SOS_VOTERID, b.[County Name], RESIDENTIAL_ADDRESS1,
       replace(RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
RESIDENTIAL_CITY + ', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP,', ,
',, ') as Full_Address
       ,DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where
    RESIDENTIAL_ADDRESS1 like '% TR %' or --20,147 rows
    RESIDENTIAL_ADDRESS1 like '% HWY %' or -- 1,368 rows
    RESIDENTIAL_ADDRESS1 like '% CO RD %' or -- 10,598 rows
    RESIDENTIAL_ADDRESS1 like '% SR %' or --45,833 rows
    RESIDENTIAL_ADDRESS1 like '% ST RT%' or --34,462
```

The query reveals 112,408 uses of non-standard highway designations.

Invalid Residential Zip Codes

Zip codes in Ohio range from 43001 to 45999. 4 ACTIVE voter records were found in the SWVF with zip codes that do not fall within that range.

SOS_VOTERID	County Name	RESIDENTIAL_ZIP	Full Address	DATE_OF_BIRTH	REGISTRATION_DATE	VOTER_STATUS
OH0023393212	Franklin		4227 WALMAR DR, COLUMBUS, OH	1992-11-14	2015-11-29	ACTIVE
OH0025546764	Miami	00000	1 INVALID ADDRESS, NONE, NA 00000	1993-12-14	2020-05-15	ACTIVE
OH0026195572	Shelby	00000	1 INVALID ADDRESS, NONE, NA 00000	1800-01-01	2019-07-15	ACTIVE
OH0026114628	Shelby	00000	1 INVALID ADDRESS, NONE, NA 00000	1977-07-14	2020-12-18	ACTIVE

Voter registrations with an invalid residential address should not be in the official list of voter registrations, much less should they be present with “Active” status.

The following query counts the number of voters with mailing addresses/zip codes outside of Ohio.

```
select SOS_VOTERID, b.[County Name], MAILING_ZIP, PARTY_AFFILIATION,
       replace(RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
RESIDENTIAL_CITY + ', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP,', ,
',, ') as Full_Address
       ,replace(MAILING_ADDRESS1 + ', ' + MAILING_SECONDARY_ADDRESS + ', ' +
MAILING_CITY + ', ' + MAILING_STATE + ' ' + MAILING_ZIP,', , ',, ') as
Full_Mail_Address
       ,DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where MAILING_ZIP is not null and MAILING_ZIP not like ''
      and (MAILING_ZIP < 43001 or MAILING_ZIP > 45999)
order by PARTY_AFFILIATION desc
```

12,837 voters have mailing addresses outside of Ohio, 227 are registered republican, 919 are registered democrat. The party affiliation identified in the SWVF is 10.4% republican, 11.8% democrat, and 0.04% libertarian. Out of state voters are much more likely to be democrats than republicans.

Invalid Mailing Address

Properly entered mailing addresses are important to assure that out-of-state voters can receive election correspondence. However, it is likely that many registered out of state voters will never receive mail at the addresses listed in the SWVF.

The following query lists the values entered for states and countries in the SWVF. Valid US state and military entries are excluded to shorten the list.

```
select MAILING_STATE, MAILING_COUNTRY, count(*) as NumRegVoters
from dbo.SWVF_112721
where MAILING_STATE is not null and MAILING_STATE not like ''
group by MAILING_STATE, MAILING_COUNTRY
order by MAILING_STATE, MAILING_COUNTRY
```

In many cases, non-US state values have no corresponding country listed. It is unlikely these voters can receive mail. There are also incidents where non-standard US state abbreviations are used.

MAILING_STATE	MAILING_COUNTRY	Num Reg Voters
---	MOROCCO	1
,		2
,	LEBANON	1
4		1
5 TH	YUNUSOBOD DISTRICT	7
841	SLOVAK REPUBLIC	1
969		1
AB	CANADA	8
BC	CANADA	7
CH		1
CHB	JAPAN	1
DC	COLOMBIA	1
DDS	PHILLIPPINES	1
FLA		5
FS	SOUTH AFRICA	1
GE		1
GU		1
HO		1
ILL		3
JAL	MEXICO	2
JPN		1
KAN		3
KU	TO	1
MB	CANADA	7
MC		4
MG	BRASIL	1
MG	BRAZIL	1
MIN		1
NEW	AUSTRALIA	1
NL	CANADA	1
NRW	GERMANY	2
NS	CANADA	3
NSW	AUSTRALIA	6
O		1
OH	FAIRFIELD	1
ON	CANADA	36
ON	CANDA	1
ONT	CANADA	11
ONT	CANDADA	1
OO		1
PH		1
PR		5

MAILING_STATE	MAILING_COUNTRY	Num Reg Voters
QC	CANADA	13
QLD	AUSTRALIA	1
RD3	NEW ZEALAND	1
RS	BRAZIL	1
SP		1
SW5	UNITED KINGDOM	4
TEX		2
TN	INDIA	3
TN	SUMNER	1
TO	ITALY	1
TS	INDIA	3
UK	UNITED KINGDOM	5
VER	MEXICO	1
VI		5
WA	AUSTRALIA	4
Z	ESPANA	1

It is apparent that mailing addresses are entered into the SWVF with less rigor than are residential addresses.

Military and Diplomat Addresses

The following query identifies 284 mailing addresses associated with overseas members of the military and state department. The query is generalized to look for the key letters APO, DPO, and FPO in the mailing address and city fields and the key letters AA, AE, and AP in the mailing state field to account for the variety of non-standard ways these addresses have been entered into the SWVF.

```

select SOS_VOTERID, b.[County Name], MAILING_ADDRESS1, MAILING_SECONDARY_ADDRESS,
MAILING_CITY, MAILING_STATE, MAILING_COUNTRY, MAILING_ZIP,
MAILING_POSTAL_CODE
,replace(MAILING_ADDRESS1 + ', ' + MAILING_SECONDARY_ADDRESS + ', ' +
MAILING_CITY + ', ' + MAILING_STATE + ', ' + MAILING_COUNTRY + ', '
+ MAILING_ZIP + ', ' + MAILING_POSTAL_CODE,', , ',', ') as
Full_Mail_Address
, replace(RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
RESIDENTIAL_CITY + ', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP,', ,
',', ') as Full_Residential_Address
,DATE_OF_BIRTH, REGISTRATION_DATE, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where MAILING_STATE in ('AA','AE','AP')
or MAILING_CITY in ('APO','FPO','DPO') or MAILING_ADDRESS1 like '%[^a-zA-
Z][A][P][O][^a-zA-Z]%' or MAILING_ADDRESS1 like '%[^a-zA-Z][F][P][O][^a-zA-
Z]%'
or MAILING_ADDRESS1 like '%[^a-zA-Z][D][P][O][^a-zA-Z]%'
order by b.[County Name]

```

The results of the query indicate a lack of consistency in entering military addresses. Because inconsistency some of these persons may not receive elections related mailings. The EOM specifies:

Overseas military addresses must contain an APO or FPO designation along with a two-character “state” abbreviation of AE, AP, or AA and the ZIP Code or ZIP+4 Code (e.g., APO AE 09001-5275)

The table below is a partial list of query results demonstrating various inconsistencies including the state abbreviation placed in the country column, invalid state designations, missing zip codes, and combinations of overseas and domestic addresses.

SOS VOTERID	County Name	MAILING ADDRESS1	MAILING SECONDARY ADDRESS	MAILING CITY	MAILING STATE	MAILING COUNTRY	MAILING ZIP	MAILING POSTAL CODE	VOTER STATUS
OH0020208213	Allen	PSC 37 BOX1265		APO	AE		09494		CONFIRMATION
OH0025009998	Allen	CMR 480 BOX 1659		APO	NY		09123		ACTIVE
OH0012250155	Ashland	ECHO CO 4TH PLT	UNIT 43504	FPO	AP		96426		ACTIVE
OH0026277180	Auglaize	PSC 78 BOX 7463 APO,AP 96323		WAPAKONETA	OH		45895		ACTIVE
OH0021493779	Auglaize	PSC 37 BOX 2171 APO, AE 094590022		ST MARYS	OH		45885		CONFIRMATION
OH0023758534	Belmont	PSC 333 BOX 1075		APO	AP		96251		ACTIVE
OH0010279894	Brown	PSC 41 BOX 3742 APO, AE 09464		FAYETTEVILLE	OH		45118		ACTIVE
OH0017945293	Clermont	UNIT 9700 BOX 3101		DPO	AE		09830		ACTIVE
OH0021187526	Cuyahoga	CMR 411 BOX 571		APO	NY		09112		CONFIRMATION
OH0023094848	Cuyahoga	PSC 561 BOX 1636		FPO					CONFIRMATION
OH0023746348	Cuyahoga	PSC 851 BOX 1695		FPO	AL		09834		ACTIVE
OH0023346915	Fairfield	CSTC-A/SAO APO AE		09320					ACTIVE
OH0018133910	Fairfield	3-2 GSAB D CO UNIT 15761		MAILBOX 1526 APO	AP		96271		ACTIVE
OH0023519585	Fairfield	2-174 ADA(FWD) TFTQ		CAMP MANION (AL TAGADDUM) APO	AE		09381		CONFIRMATION
OH0024504552	Franklin	PSC 7 BOX 696		APO		AE		09104	ACTIVE
OH0017093207	Franklin	CMR 489, BOX 1728		APO		AE		09751	ACTIVE
OH0017191072	Franklin	PSC 78 BOX 3329		APO		AP		96326	ACTIVE
OH0017097683	Franklin	PSC 78 BOX 3329		APO		AP		96326	ACTIVE
OH0017091247	Franklin	PSC 813 BOX 156		FPO		AE		09620	ACTIVE
OH0017018238	Franklin	PSC 474 BOX 4005		FPO		AP		46351	ACTIVE
OH0024874436	Franklin	PSC 704 BOX 3507		APO	CA		96338		ACTIVE
OH0024970687	Geauga	PSC 1 BOX 4536 APO AE 09009		BURTON	OH		44021		CONFIRMATION
OH0021414494	Greene	PSC 37 BOX 1691 APO AE, 09459- 0017		DAYTON	OH		45432		ACTIVE
OH0023975131	Greene	PSC 303 BOX 26 APO, 96204		XENIA	OH		45385		CONFIRMATION
OH0021894295	Greene	PSC 706 BOX 386 APO AP 96301		DAYTON	OH		45432		ACTIVE

SOS VOTERID	County Name	MAILING ADDRESS1	MAILING SECONDARY ADDRESS	MAILING CITY	MAILING STATE	MAILING COUNTRY	MAILING ZIP	MAILING POSTAL CODE	VOTER STATUS
OH0024752598	Greene	CMR 460 BOX 100		APO	NY		09752		ACTIVE
OH0026200833	Greene	PSC 9 BOX 3684 APO, AE 09123		BEAVERCREEK	OH		45434		ACTIVE
OH0020989263	Greene	PSC 46 BOX 1204, APO, AE 09469		FAIRBORN	OH		45324		CONFIRMATION
OH0024058916	Greene	PSC 3 BOX 1134 APO AE 09021		BEAVERCREEK	OH		45434		CONFIRMATION
OH0021695719	Guernsey	PSC 80 BOX 14765 APO, AP 96367-0050		QUAKER CITY	OH		43773		ACTIVE

PRIVATE ADDRESSES

Some persons are granted the privilege of requesting a private registration for security reasons. Private registrations are not to be made available to the public. The following query searches for the word “Private” in the street name. Most of the records returned produce mappable addresses. However, in the cases below, the address suggests that the person providing the address was requesting a private registration. Assuming the person had a valid reason for the request, this error exposes information contained in their voter record and could put them at risk. Otherwise, the address is an invalid voter registration entry.

```
select SOS_VOTERID,b.[County Name],LAST_NAME,FIRST_NAME,MIDDLE_NAME,
RESIDENTIAL_ADDRESS1, RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_CITY + ',
OH ' + RESIDENTIAL_ZIP as Full_Address
,DATE_OF_BIRTH,REGISTRATION_DATE,VOTER_STATUS,GENERAL_11_02_2021,
GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where RESIDENTIAL_ADDRESS1 like '%private%'
```

County Name	RESIDENTIAL_ADDRESS1	VOTER STATUS
Medina	6 I WANT A PRIVATE DR	CONFIRMATION
Medina	7 I WANT A PRIVATE DR	ACTIVE

Conclusions

There are numerous data entry compliance issues with respect to addresses. The SoS’s standards described in the EOM are not uniformly followed. The system does not appear to implement data validation that enforces the standards when addresses are entered into the system, and it does not screen the data for address issues. With respect to mailing addresses for voters outside of Ohio, there are errors that will prevent voters from receiving confirmation requests or ballots sent by election officials. Some overseas military and diplomatic mailing addresses are not recorded properly and consistently in the database and could prevent some of these voters from receiving their ballot.

DUPLICATE REGISTERED VOTERS

Section 1.14 of the EOM states: “All county boards of election must keep their duplicate levels to .030 percent on a rolling monthly basis.” Ideally, there are no duplicates in the voter rolls.

Additionally, when a board of elections prints its Election Day precinct lists, it is vitally important to have local and statewide voter registration lists as accurate as possible. The Secretary of State expects all counties to have their duplicate numbers at 0 percent by the 14th day prior to an election. “

The following query removes all space characters, concatenates last name, first name, and middle name values, and checks for duplicate name and birth date combinations.

```
select SOS_VOTERID, [County Name], LAST_NAME, FIRST_NAME, MIDDLE_NAME, SUFFIX,
       date_of_birth, DATEDIFF(year,date_of_birth,'2021-09-16') as AGE,
       REGISTRATION_DATE, VOTER_STATUS,
       RESIDENTIAL_ADDRESS1, RESIDENTIAL_CITY, RESIDENTIAL_STATE,
       RESIDENTIAL_ZIP, VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where LAST_NAME + FIRST_NAME + cast(Date_of_Birth as varchar(15)) in
      (select LAST_NAME + FIRST_NAME + cast (Date_of_Birth as varchar(15))
      from dbo.SWVF_112721
      where VOTER_STATUS like 'ACTIVE'
      GROUP BY LAST_NAME, FIRST_NAME, Date_of_Birth
      HAVING COUNT(*)>1)
order by LAST_NAME, FIRST_NAME
```

14,268 potential duplicate voter records are produced by the query. In 293 of those cases, the voter appears to have three or more active registrations. In some instances, multiple votes are recorded for the potential duplicate voter for the Nov 2020 Presidential election. The following table shows a several records from the query.

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX	BIRTH DATE	REG. DATE	VOTER STATUS	RESIDENTIAL ADDRESS1	RESIDENTIAL CITY	VOTED Nov 2020
OH0026335841	Lorain	ABAZIED	ISMAIL	F		1970-10-06	2021-10-26	ACTIVE	6013 MILLS CREEK LN	N RIDGEVILLE	
OH0025357162	Cuyahoga	ABAZIED	ISMAIL	F		1970-10-06	2020-01-17	ACTIVE	22447 LAKE RD	ROCKY RIVER	X
OH0013533900	Butler	ABBOTT	DANA	Y		1979-06-28	2008-07-17	ACTIVE	5767 RED OAK DR	FAIRFIELD	X
OH0026339068	Adams	ABBOTT	DANA	Y		1979-06-28	2021-11-22	ACTIVE	827 HAMILTON RD	WEST UNION	
OH0017030984	Franklin	ABBOTT	KAREN	S		1952-03-14	2002-09-06	ACTIVE	4269 HARRISBURG PIKE	GROVE CITY	X
OH0010043602	Clark	ABBOTT	KAREN	E		1952-03-14	1990-11-13	ACTIVE	1731 MARINETTE DR	SPRINGFIELD	X
OH0019351829	Cuyahoga	ABDELRAHIM	WISSAM	M		1984-03-20	2013-03-27	ACTIVE	27003 OAKWOOD CIR	OLMSTED TWP	
OH0026338442	Lorain	ABDELRAHIM	WISSAM	M		1984-03-20	2021-11-07	ACTIVE	37917 PEBBLE LAKE TRL	N RIDGEVILLE	
OH0021621135	Franklin	ABDI	AHMED	MOHAMED		1986-01-01	2011-12-16	ACTIVE	5050 OPEN MEADOWS DR	COLUMBUS	X
OH0025004485	Franklin	ABDI	AHMED	ALI		1986-01-01	2019-01-16	ACTIVE	1840 LARAMIE DR	POWELL	X
OH0022285152	Franklin	ABDI	AYAN	MUSA		1990-01-01	2012-12-19	ACTIVE	95 BIRD ST	GAHANNA	X
OH0026130636	Franklin	ABDI	AYAN	MOHAMED		1990-01-01	2021-01-21	ACTIVE	2293 LAURELWOOD DR	COLUMBUS	
OH0025147608	Franklin	ABDI	FARHIYA	MUHAMED		1989-01-01	2019-07-23	ACTIVE	4600 NORTH TOWNE BLVD	COLUMBUS	
OH0025665518	Franklin	ABDI	FARHIYA	MOHAMED		1989-01-01	2020-07-31	ACTIVE	4465 WREN TRCE	COLUMBUS	X

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX	BIRTH DATE	REG. DATE	VOTER STATUS	RESIDENTIAL ADDRESS1	RESIDENTIAL CITY	VOTED Nov 2020
OH0026200911	Franklin	ABDI	MOHAMED	ALI		1981-01-01	2021-10-02	ACTIVE	1423 SHARON CREEK CT	COLUMBUS	
OH0024478870	Franklin	ABDI	MOHAMED	Y		1981-01-01	2017-12-27	ACTIVE	2708 PRIMROSE TRL	COLUMBUS	
OH0023995148	Franklin	ABERNATH Y	REGINA	M		1970-01-21	2016-10-03	ACTIVE	6161 GIOFFRE WOODS LN	COLUMBUS	X
OH0026328238	Lucas	ABERNATH Y	REGINA	M		1970-01-21	2021-11-13	ACTIVE	725 WOODSTOCK AVE	TOLEDO	
OH0026326615	Greene	ABSHEAR	DEBRA	ANN		1959-10-10	2021-10-05	ACTIVE	72 RYDER CT	BELLBROOK	
OH0025751134	Clark	ABSHEAR	DEBRA	ANN		1959-10-10	2020-08-27	ACTIVE	1778 CALAIS DR	SPRINGFIELD	X
OH0026229044	Franklin	ABU RIZEQ	HAKAM			1986-10-27	2021-06-17	ACTIVE	4091 CLIFTON PARK CIR W	NEW ALBANY	
OH0026329287	Delaware	ABU RIZEQ	HAKAM			1986-10-27	2021-11-01	ACTIVE	1831 WHITEHILL DR	DELAWARE	
OH0026327808	Fairfield	ACHARYA	THAKUR	P		1959-03-01	2021-10-26	ACTIVE	8363 CHESAPEAKE WAY NW	PICKERINGTON	
OH0023545667	Cuyahoga	ACHARYA	THAKUR	P		1959-03-01	2016-02-16	ACTIVE	6620 VALLEVISTA DR	MAYFIELD HTS	X
OH0023496486	Cuyahoga	ACHARYA	TULASA	D		1956-07-16	2016-02-04	ACTIVE	6620 VALLEVISTA DR	MAYFIELD HTS	X
OH0026327857	Fairfield	ACHARYA	TULASA	D		1956-07-16	2021-10-26	ACTIVE	8363 CHESAPEAKE WAY NW	PICKERINGTON	
OH0025645434	Franklin	ACKER	DOUGLAS	A		1971-01-21	2020-07-21	ACTIVE	2618 MARBLEVISTA BLVD	COLUMBUS	
OH0026339850	Montgomery	ACKER	DOUGLAS	A		1971-01-21	2021-10-14	ACTIVE	3449 RIDGEWAY RD	DAYTON	
OH0026326947	Delaware	ACKERMAN	ALLAN	LEE		1977-06-06	2021-11-02	ACTIVE	4668 CHANTRY DR	GALENA	
OH0024596448	Richland	ACKERMAN	ALLAN	LEE		1977-06-06	2018-04-18	ACTIVE	14 OTTERBEIN DR	LEXINGTON	X
OH0026332869	Franklin	ACKERMAN	ERICK	A		1987-05-22	2021-11-01	ACTIVE	1141 MULFORD RD	COLUMBUS	
OH0023702262	Sandusky	ACKERMAN	ERICK	A		1987-05-22	2016-05-26	ACTIVE	109 N LEONARD ST	GREEN SPRINGS	X
OH0010243458	Logan	ACKLEY	JAY	ROBERT		1969-08-02	1987-04-06	ACTIVE	9738 TOWNSHIP ROAD 141	EAST LIBERTY	X
OH0011036686	Ross	ACKLEY	JAY	RONALD		1969-08-02	1999-08-10	ACTIVE	1928 LANCASTER RD	CHILlicothe	X
OH0026331329	Union	ACORD	JOHNATHAN	E		1993-03-17	2021-11-07	ACTIVE	1510 BAHIA DR	MARYSVILLE	
OH0024310851	Franklin	ACORD	JOHNATHAN	E		1993-03-17	2017-06-24	ACTIVE	35 BROADMEADOWS BLVD	COLUMBUS	X
OH0025976992	Cuyahoga	ACREE	AARON	SCOT		1997-02-20	2020-10-05	ACTIVE	10321 FOXWOOD DR	NORTH ROYALTON	X
OH0026332381	Franklin	ACREE	AARON	SCOT		1997-02-20	2021-10-12	ACTIVE	5050 BELLE CROSSING RD	DUBLIN	
OH0026329291	Delaware	ADAIR	MEGAN			1979-06-30	2021-11-12	ACTIVE	649 SPRING VALLEY DR	LEWIS CENTER	
OH0024564095	Franklin	ADAIR	MEGAN			1979-06-30	2018-04-03	ACTIVE	472 GRAHAM ST	COLUMBUS	X
OH0019994036	Franklin	ADAMS	ANDREW	J		1984-01-01	2008-09-09	ACTIVE	7651 N TONTI DR	DUBLIN	X
OH0022648431	Hamilton	ADAMS	ANDREW	IAN		1984-01-01	2014-01-02	ACTIVE	3764 LYNDONCENTER CT	CINCINNATI	X

SOS_VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX	BIRTH DATE	REG. DATE	VOTER STATUS	RESIDENTIAL ADDRESS1	RESIDENTIAL CITY	VOTED Nov 2020
OH0016922212	Franklin	ADAMS	CHRISTOPHER	D		1971-10-14	2000-02-02	ACTIVE	126 W TULANE RD	COLUMBUS	X
OH0026336158	Brown	ADAMS	CHRISTOPHER	POST		1980-07-08	2021-11-22	ACTIVE	5010 OLD A & P RD N	RIPLEY	
OH0025273515	Greene	ADAMS	CHRISTOPHER	BRIAN		1971-10-14	2019-11-05	ACTIVE	1398 MEADOW WOOD DR	FAIRBORN	X
OH0016845687	Licking	ALLISON	GLEN	ELWOOD		1938-08-19	1993-10-04	ACTIVE	29 KNOB HILL DR SW	PATASKALA	X
OH0026332080	Franklin	ALLISON	GLEN	ELWOOD		1938-08-19	2021-10-18	ACTIVE	8263 HAVENS CORNERS RD	BLACKLICK	
OH0026332075	Franklin	ALLISON	ROBERTA	ANN		1942-02-19	2021-10-18	ACTIVE	8263 HAVENS CORNERS RD	BLACKLICK	
OH0016845701	Licking	ALLISON	ROBERTA	ANN		1942-02-19	1993-10-04	ACTIVE	29 KNOB HILL DR SW	PATASKALA	X
OH0025224644	Pickaway	ALLMON	TARYN	ELISE		1993-06-20	2019-09-24	ACTIVE	966 S WASHINGTON ST	CIRCLEVILLE	X
OH0026332938	Franklin	ALLMON	TARYN	ELISE		1993-06-20	2021-10-26	ACTIVE	2580 MCDONALD CT	GROVE CITY	
OH0017721012	Franklin	ALLTOP	JUDITH	A		1944-10-28	1998-01-01	ACTIVE	5855 PARKBRIDGE LN	DUBLIN	X
OH0026331396	Union	ALLTOP	JUDITH	A		1944-10-28	2021-11-12	ACTIVE	620 BUCHLOE DR	MARYSVILLE	
OH0022019188	Franklin	ALMONTE	DOLLY	MERCEDES		1964-04-05	2012-09-23	ACTIVE	6388 ROSE GARDEN DR	NEW ALBANY	X
OH0023323469	Franklin	ALMONTE	DOLLY	ISABEL		1964-04-05	2012-10-18	ACTIVE	4493 FLOWER GARDEN DR	NEW ALBANY	X
OH0026329309	Delaware	ALOIA	DANIEL	L		1952-06-16	2021-10-15	ACTIVE	15126 MEREDITH STATE RD	SUNBURY	
OH0017458892	Franklin	ALOIA	DANIEL	L		1952-06-16	2017-05-15	ACTIVE	2118 KILBOURNE AVE	COLUMBUS	X
OH0026335907	Hamilton	ALSABEE	THAYER			1978-10-20	2021-10-06	ACTIVE	7641 MONTGOMERY RD	CINCINNATI	
OH0025006527	Warren	ALSABEE	THAYER			1978-10-20	2018-10-22	ACTIVE	9741 DARTMOUTH WAY	LOVELAND	X

Some names in the results have different middle names and are perhaps actually voter registrations for unique individuals. Election integrity investigations conducted in other states have reported that one method of illegitimately inflating voter rolls is to slightly alter a name. For example, in one case using a full middle name and, in another case, using an initial or perhaps a different initial so as to defeat screens for duplicate voters. Experience guided by intelligences suggests that same last name, first name, birth date combinations should be extremely rare. All of the possible duplicate registrations identified by the query should be investigations to eliminate any duplicates.

VOTER STATUS ISSUES

In the SWVF voter status is either “ACTIVE” or “CONFIRMATION”. Voters with either status are permitted to vote, although voters with “CONFIRMATION” status typically must vote a provisional ballot. These are the only two types of status found in the SWVF, one is left to assume that while they should remain in the database, any inactive or ineligible registrations are not included in the downloadable SWVF. According to the EOM, CONFIRMATION status is assigned when the voter is undergoing verification triggered by a mismatch with BMV data, SSA data, or some other reason. Voters in CONFIRMATION status are returned to ACTIVE status when they respond to a notice they received from the county BOE or take another election related action such as voting on election day.

The following query identifies 80,012 persons that voted in the 2020 Presidential election, and have CONFIRMATION status assigned in the 11/27/21 data set. 23,706 of those voters were registered in 2020.

```
select SOS_VOTERID, b.[County Name], LAST_NAME, FIRST_NAME, MIDDLE_NAME, SUFFIX,
       DATE_OF_BIRTH, DATEDIFF(year,date_of_birth,'2021-09-16') as AGE,
       REGISTRATION_DATE, VOTER_STATUS,
       RESIDENTIAL_ADDRESS1 +', ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
       RESIDENTIAL_CITY +', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP as
       FullAddress, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
where GENERAL_11_03_2020 like 'X'
       and VOTER_STATUS like 'CONFIRMATION' -- 80,012 rows
       and REGISTRATION_DATE > '2019-12-31' --23,706 rows
```

In other states, election integrity investigations have revealed that a source of election fraud is inflating voter rolls, surreptitiously voting on behalf of these persons, and then subsequently removing those voters. A bad actor or intruder with access to the state voter registration database could easily flip voter registration status from CONFIRMATION to ACTIVE and back again with a couple simple SQL statements. These 80,012 voter registrations, and particularly the newly registered 23,706 voters, should be investigated to determine why so recently active or registered voters have been flagged as possibly invalid registrations.

PART 2 – SYNC ISSUES

The Ohio Secretary of State and each of Ohio's 88 county Board of Elections maintain their own voter registration database. Ohio law (ORC 3503.15(D)(2) requires the Secretary to incorporate changes into the statewide database "not less than once per day" when new registration information is received. In a properly synchronized system, the county database and the statewide database are identical except for the updates that occur between data transfers. The public window into the county and statewide databases are the data sets that can be downloaded from the respective websites.

This part of the report evaluates whether the county voter files are in agreement with the statewide voter file. Any variation between the files (names don't match, addresses don't match, voting record doesn't match, etc.) indicates that they are not in sync. Another potential issue arises when one data set has more voter records than the other.

CHECKING CONSISTENCY BETWEEN COUNTY VOTER FILES AND THE SWVF

The statewide database and the 88 county databases are supposed to be in sync. The EOM requires counties to update the statewide database at least once a day with new registrations and other changes. When voter registrations are received by the SoS those files are transferred to the counties for entry. Changes in the county databases are replicated to the statewide database. The SoS makes new statewide voter files available for download on a weekly basis. County voter files are generated at the time of download. To check the consistency between county and state voter files, the SWVF was downloaded on 11/27/21 and several county voter files were downloaded on 11/27/21 (and a few early in the day on 11/28/21). If the data is tightly synchronized there should be little difference between the files.

Missing Records

The SOS_VOTERID value is a unique number assigned to each voter similar to one's driver license number. Just as each driver has a unique driver license number each voter has a unique SOS_VOTERID number which is part of their voter record in both the county and statewide databases. If the two databases are in sync, they should contain the same set of registered voters and SOS_VOTERID values.

Queries similar to the following were run to determine if county voter files and the SWVF contained the same SOS_VOTERID entries.

```
select
  case when c.SOS_VOTERID is null then 'Missing' else c.SOS_VOTERID end as
  SOSVoterID_SOS
,case when c.PRECINCT_NAME is null then 'Missing' else c.PRECINCT_NAME end
as Precinct_In_SOS
,case when c.WARD is null then 'Missing' else c.WARD end as Ward_In_SOS
,case when c.VOTER_STATUS is null then 'Missing' else c.VOTER_STATUS end as
Status_In_SOS
,case when d.SOSIDNUM is null then 'Missing' else d.SOSIDNUM end as
SOSVoterID_COUNTY
,case when d.PRECNAME is null then 'Missing' else d.PRECNAME end as
Precinct_In_COUNTY
,case when d.[CITY WARD] is null then 'Missing' else d.[CITY WARD] end as
Ward_In_COUNTY
```

```

        ,case when d.VOTERSTAT is null then 'Missing' else d.VOTERSTAT end as
        Status_In_COUNTY
from
  (select a.SOS_VOTERID, a.PRECINCT_NAME, a.WARD, a.VOTER_STATUS from
    dbo.SWVF_112721 a inner join OH_Counties b on
    a.COUNTY_NUMBER=b.County_Number
    where b.[County Name] like 'Warren') c
  full outer join dbo.Warren_voterfile_112721 d on c.SOS_VOTERID=d.SOSIDNUM
where c.SOS_VOTERID is null or d.SOSIDNUM is null

```

The table below presents the results of this query for the 11 counties examined.

County	Number of Voters in County but not in SOS SWVF	Number of Voters in SOS SWVF but not in County
Cuyahoga	1,233	1,893
Delaware	160	1
Franklin	257	17
Greene	125	0
Lorain	96	458
Lucas	123	0
Mahoning	46	0
Montgomery	106	0
Stark	2	0
Summit	125	2
Warren	92	0

In every county examined there were records missing from the county data set, the state data set, or both. This test should be conducted for all 88 counties to identify the full extent of the problem. Where records are missing from one data set or the other an investigation needs to be conducted to verify which database is correct. Otherwise, a legitimate voter may be excluded from the voter rolls on election day. An investigation should also be conducted to understand why the records are not being properly duplicated in each data set. Election integrity investigators in other states have suggested that bad actors are illegitimately adding voters to the rolls prior to an election and then removing them after the election. Such a practice would cause a synchronization issue unless both state and county databases were surreptitiously updated. An investigation should be conducted to verify this is not occurring in Ohio.

Consistency of Names, Dates, Status, and Voting History

Queries similar to the one below test to see whether last names, first names, dates of birth, registration dates, voter status, and voting history for the Nov 2020 Presidential election match between the two databases.

```

select  a.CNTYIDNUM,b.COUNTY_ID,a.SOSIDNUM,b.SOS_VOTERID,a.LastN
        ,a.FirstN,a.MiddleN,b.LAST_NAME,b.FIRST_NAME,b.MIDDLE_NAME
        , a.BIRTHYEAR,year(b.DATE_OF_BIRTH) as SOSBirthYear,
        a.REGDATE,b.REGISTRATION_DATE, a.[20201103G],b.GENERAL_11_03_2020
        ,a.prsid,a.precname,b.PRECINCT_NAME,a.voterstat,b.voter_status, a.voteruptd
        ,a.stnum + ' ' + a.stdir + ' ' + a.stname as ST_ADDR
        ,a.[City],b.RESIDENTIAL_ADDRESS1, b.RESIDENTIAL_CITY
from dbo.[warren_voterfile_112721] a join

```

```

        dbo.SWVF_112721 b on a.sosidnum = b.SOS_VOTERID
where b.county_number=83 and
  a.CNTYIDNUM <> b.COUNTY_ID
  a.LASTN <> b.LAST_NAME
  a.FIRSTN <> b.FIRST_NAME
  a.MIDDLEN <> b.MIDDLE_NAME
  a.BIRTHYEAR <> Year(b.DATE_OF_BIRTH)
  a.REGDATE <> b.REGISTRATION_DATE
  ((a.VOTERSTAT like 'ACTIVE%' and b.VOTER_STATUS not like 'ACTIVE') or
   (a.VOTERSTAT not like 'ACTIVE%' and b.VOTER_STATUS like 'ACTIVE')) or
  -- (a.VOTERSTAT like 'CONF%' and b.VOTER_STATUS not like 'CONFIRMATION') or
   (a.VOTERSTAT not like 'CONF%' and b.VOTER_STATUS like 'CONFIRMATION'))
  a.[20201103G] <> b.GENERAL_11_03_2020

```

In Franklin County when comparing county and statewide voter file records with the same SOS_VOTERID value:

- 11 records have different last names,
- 9 have different first names,
- 9 have different middle names,
- 1 has different birth year,
- 41,913 had different registrations dates,
- 7819 have different voting history for the Nov 2020 Presidential election, and
- 2081 records disagree on whether the voter is ACTIVE or in CONFIRMATION status.

For Cuyahoga County, comparing county and state data by matching SOS_VOTERID:

- 4 records are missing a value for SOS_VOTERID,
- 311 records have different last names,
- 100 have different first names,
- 812 have different middle names,
- 17 have different birth year
- 8,470 had different registrations dates,
- 4,186 have different voting history for the Nov 2020 Presidential election, and
- 3,389 records disagree on whether the voter is ACTIVE or in CONFIRMATION status.

In Lorain County, 70 records have different last names, 5 records had different first names, 41 records had different middle names, 2 records had different birth dates, 1921 records had different voting history for the Nov 2020, and 110 records disagree on whether the voter is ACTIVE or in CONFIRMATION status.

In Mahoning County, Nov 2020 voting history did not agree for 2391 records.

In Stark County, only 2 records were in the county data set but not in the statewide data set. However, Nov 2020 voting history did not agree for 2391 records.

In Lucas County, 123 voters appear in the county data set but not in the statewide data set. Two records have different names, and 1237 records have different voting history for Nov 2020.

In Summit County, there are two instances of duplicate voter records with the same COUNTY_ID number. The records appear to be exact duplicates, but in each case the duplicate is marked as an

ACTIVE VOTER. The statewide file has 2 records that are not in the county file and the county file has 125 records that aren't in the statewide file. 2,835 records have different voting history for the Nov 2020 election.

In Warren County, the county data set has 92 records that are not in the statewide data set. 83 records have different voting history for the Nov 2020 election.

In Delaware County, the county data set has 160 records that are not in the statewide data set and the statewide data set has 1 record that is not in the county data. 3,364 records have different voting history for the Nov 2020 election.

In Montgomery County, the county data set has 106 records that are not in the statewide data set. 3,522 records have different voting history for the Nov 2020 election. Two records in the county file are missing a SOS_VOTERID value.

Consistency of Addresses

The following query was run to determine if the same voter had the same address in the SWVF and the county voter file.

```
select a.SOS_VOTERID, a.PRECINCT_NAME, a.WARD,
       left(a.RESIDENTIAL_ADDRESS1,CHARINDEX(' ',a.RESIDENTIAL_ADDRESS1)-1) as
       ST_NUM, a.RESIDENTIAL_ADDRESS1, a.VOTER_STATUS, a.LAST_NAME, a.FIRST_NAME,
       year(a.DATE_OF_BIRTH) as YOB, a.REGISTRATION_DATE,
       c.[STATE ID] , c.[PRECINCT NAME WITH SPLIT], c.[HOUSE NO], c.[RES STREET],
       c.[STATUS], c.[LAST NAME], c.[FIRST NAME], c.DATE_OF_BIRTH,
       c.REGISTRATION_DATE
from
     dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
     inner join dbo.Franklin_VOTERFILE_112721 c on a.SOS_VOTERID=c.[STATE ID]
where b.[County Name] like 'Franklin' and
      charindex(c.[RES STREET],a.RESIDENTIAL_ADDRESS1,1) = 0
```

If the same street name was found in both data sets it was considered a match. Discrepancies were found in each county. The following table illustrates a very common discrepancy in Franklin County.

SOS_VOTERID	SOS STREET ADDRESS	COUNTY STREET ADDRESS
OH0016710756	845 WIND BLUFF PT	845 WIND BLUFF POINT
OH0025514048	3639 SIMPSONS TRCE	3639 SIMPSONS TRACE
OH0021853015	9303 MAXWELLS XING	9303 MAXWELLS CROSSING
OH0025966324	834 LINDEN CRK	834 LINDEN CREEK

In the SWVF the street description is abbreviated and in the county voter file it is spelled out. Warren county has 3,362, Delaware has 98, and Montgomery has 423 such discrepancies. The addresses clearly represent the same property. The data was obviously entered from two different sources or modified in one database and not the other. If it had been entered by the county and synced with the state or if they were entered by the state and synced with the county the values would match. The fact that they don't match is evidence that the databases are not in proper synchronization.

In Franklin County, the 18 records listed below have entirely different street addresses in the two databases.

SOS_VOTERID	SOS SWVF ADDRESS	FRANKLIN COUNTY ADDRESS
OH0017373292	513 E SECOND AVE	4342 BRITT PL
OH0023372786	1090 FOUNTAIN LN	5040 CHATTERTON RD
OH0020044779	4972 BETSY DR	5248 FLOWER VALLEY DR
OH0019583533	861 ELLINGTON CIR	686 S KELLNER RD
OH0017463902	661 KINGSFORD RD	1551 BRYDEN RD
OH0021262670	3820 CONFLUENCE DR	5512 SENTINEL FALLS ST
OH0022030783	111 W THIRD AVE	30 W FIRST AVE
OH0017267648	1960 DRURY LN	2122 MACKENZIE DR
OH0026166688	3069 CUMBERLAND WOODS DR	694 SHELDON AVE
OH0022386318	2918 BARCLAY SQ S	2819 E DUBLIN GRANVILLE RD
OH0025784271	57 W NINTH AVE	305 E ELEVENTH AVE
OH0017617951	5544 BOULDER CREST ST	3560 FISHINGER MILL DR
OH0022850947	2054 LANGHAM RD	7118 FAULKNER WAY
OH0026254790	325 W EIGHTH AVE	2895 ANGELO JOSEPH LN
OH0017025278	28 STEVENS AVE	501 CLARENDON AVE
OH0023996900	898 OXLEY RD	423 S CHAMPION AVE
OH0022190403	2682 GOLDENSTRAND DR	3474 NOE BIXBY RD
OH0017261278	356 INDIAN MOUND RD	4647 VIRGINIA GAY DR

In Cuyahoga County, 4,897 voters have different street addresses in the two data sets. Many address records in the county data set have multiple <space> characters between elements of the address making the addresses appear similar to the reader. However, computer synchronization would make the records identical regardless of the <space> characters. Data in the statewide database and all county databases should be updated to remove the extraneous <space> characters.

COMPARING VERSIONS OF SWVF DATA

The state wide voter files available from the SOS website are updated weekly. Different versions were compared to evaluate what is changing week to week. The SOS_VOTERID value uniquely identifies each registered voter and should continue to identify the same voter in successive versions of the SWVF. Comparing the 10/16/21 download with the 11/27/21 download files yields some interesting results.

Records with Name Changes

The query below looks for records with different first and last names between the 10/16/21 SWVF download and the 11/27/21 download.

```
select b.SOS_VOTERID, e.[County Name], b.LAST_NAME as [10-16-21 LNAME],
       b.FIRST_NAME as [10-16-21 FNAME], b.MIDDLE_NAME as [10-16-21 MNAME],
       c.LAST_NAME as [11-27-21 LNAME], c.FIRST_NAME as [11-27-21 FNAME],
       c.MIDDLE_NAME as [11-27-21 MNAME]
from dbo.SWVF_101621 b inner join dbo.SWVF_112721 c on b.SOS_VOTERID=c.SOS_VOTERID
inner join dbo.OH_Counties e on b.COUNTY_NUMBER=e.County_Number
where b.LAST_NAME <> c.LAST_NAME and
       b.FIRST_NAME <> c.FIRST_NAME
```

Both the first name and last name fields changed in 56 records. Some of these are presumably name changes or corrections. However, there are also some curious changes. In particular, it is not clear that the same person continues to use the assigned SOS_VOTERID. A few examples from the table below:

- DAVE ANTHONY HINES has become KING INCREASE DADA
- SIVARIS O HODO has become BEN OLIVER EVANS
- ANDREA JEAN HANCAK has become VIOLET LILAC NOVA
- WENDY LEIGH LOOMIS has become VOID LEIGH MORDANT
- STEVEN B GARRETT has become STEPHANIE ANDERSON

SOS_VOTERID	County Name	10-16-21 LNAME	10-16-21 FNAME	10-16-21 MNAME	11-27-21 LNAME	11-27-21 FNAME	11-27-21 MNAME
OH0026257210	Franklin	TAHIR	JAMAL	SALEH	MOHAMEDTAHER	JEMAL	SALEH
OH0021720562	Wood	LENZ	RONALD	R	HEFT	LISA	D
OH0026320791	Warren	FERUZA	AKHMEDOVA		AKHMEDOVA	FERUZA	
OH0019593431	Franklin	SPILLMAN	SYAWANA	ANN	SPILLMAN VIRGIN	SYWANAH	ANN
OH0010048962	Clark	BIRT	LEE		12255110	12255110	
OH0025365823	Franklin	JOCAS	DONOVANNE	GOMEZ FISHER	GOMEZ	VERONICA	
OH0023466228	Franklin	ANSARI	NADEEM	ABRAR	NADEEM	ANSARI	ABRAR
OH0015850264	Greene	HUTSON	CHRISTOPHER	WILLIAM	CHRISTOPHER	HUTSON	WILLIAM
OH0017057122	Franklin	HINES	DAVE	ANTHONY	DADA	KING	INCREASE
OH0019967848	Montgomery	MOORE	ERICK	ALONZO	IVERY	EMILEON	IVAAN
OH0026300975	Franklin	BONNY	KAGGWE		KAGGWE	BONNY	
OH0022707732	Franklin	HODO	SIRVARIS	O	EVANS	BEN	OLIVER
OH0025134537	Seneca	BRANDEBERRY	CATHY		MARTINEZ	CATHERINE	JEAN
OH0025120587	Summit	TONI	CUNNINGHAM	DANIELLE	CUNNINGHAM	TONI	DANIELLE
OH0017044919	Franklin	MARSHALL	AUDREY	LEE	GALIARDI	AUDREY LEE	
OH0024011447	Franklin	GURE	MOHAMED	E	KULANE	HASSAN	AHMED
OH0025266030	Lucas	JACKIE	JOYCE	J	JOYCE	JACKIE	JEROME
OH0025097942	Lucas	HANCAK	ANDREA	JEAN	NOVA	VIOLET	LILAC
OH0026323029	Columbiana	PEBBLES	I	ROELEN	ROELEN	PEBBLES	I
OH0026087983	Franklin	ABO SAFI	HANAA		SAFI	HANNAH	
OH0024029020	Franklin	LOOMIS	WENDY	LEIGH	MORDANT	VOID	LEIGH
OH0010696235	Summit	DRONE	JACQUELINE M	SCOTT	SCOTT DRONE	JACQUELINE	
OH0019607982	Hamilton	MILLER	ERIN JOHANNA	DEWITT	DEWITT MILLER	ERIN	JOHANNA
OH0025610961	Franklin	COUSIN	SHA BREANN	N	QUINONES	SHABREANN	N
OH0025178339	Cuyahoga	BRADY	MYRNA		SHAMP	NINA	DELMARE
OH0024935459	Cuyahoga	CASTEELE	COLIN	R	HAYES	COURTNEY	G
OH0019956771	Butler	GARRETT	STEVEN	B	ANDERSON	STEPHANIE	
OH0026226452	Franklin	PHILLIPS	AMANDA	D	FEST	MANDY	DAWN
OH0013827363	Hamilton	BERKEMEYER	LARA MARY	GUTTMAN	GUTTMAN BERKEMEYER	LARA	MARY
OH0013037298	Lucas	DEGNER	TAMMY	S	BLANCHONG	TAMARA	SUE
OH0026285403	Franklin	SESAY	KADIALU		CONTEH	KADIATU	
OH0015640305	Cuyahoga	PORCH	LASLELL	VERDELL	ELLERBAE	LASHELL	VERDELL
OH0026301168	Franklin	DEWAN	GYANU		RAI	GYANENDRA	
OH0017015598	Franklin	TEKIE	HOSANA		JOSEPHAT	HOSANNA	TEKIE
OH0024394072	Franklin	CONRAD	LOGAN	E	CONNOR	ROBYN	ERICA
OH0025030440	Lucas	MOORE	AARON	EDWARD	NOVA	ELENA	MAE
OH0025974702	Wood	ZHONG	CHEN		CHEN	ZHONG	
OH0026305020	Franklin	KHAN	SALEHAWNG	T	KHAM	SAKHAWNG	T
OH0010337179	Ashtabula	PITONYAK	MICHELE	A	SZABO	SHELDON	PHILIP

Sometimes people do the unexpected – officially change your name to your inmate number, adopt the name VOID, even a totally new name. However, many entries above are swaps between first name and

last name, which are more likely corrections. It is important to verify that these name changes are correct because an incorrect name would disqualify someone from voting. Assuming there were corrections made, it is also important to understand why the errors occurred and to correct the process that allows that to happen.

Changes to Birth Date

Because most people have a single birth date, birth dates for the same voter and SOS VOTERID should be consistent between versions of the SWVF. The following query compares the 9/11/21, 10/16/21, and the 11/27/21 versions of the SWVF.

```

select
case when a.sos_voterid = b.SOS_VOTERID then 'MATCH' else 'NO MATCH' end as [Sep-
Oct SOSID],
case when a.LAST_NAME+a.FIRST_NAME+a.MIDDLE_NAME =
b.LAST_NAME+b.FIRST_NAME+b.MIDDLE_NAME then 'MATCH' else 'NO MATCH' end as
[Sep-Oct Name],
case when a.RESIDENTIAL_ADDRESS1+a.RESIDENTIAL_CITY =
b.RESIDENTIAL_ADDRESS1+b.RESIDENTIAL_CITY then 'MATCH' else 'NO MATCH' end
as [Sep-Oct Address],
case when a.DATE_OF_BIRTH = b.DATE_OF_BIRTH then 'MATCH' else 'NO MATCH' end as
[Sep-Oct DOB],
case when c.SOS_VOTERID = b.SOS_VOTERID then 'MATCH' else 'NO MATCH' end as [Oct-
Nov SOSID],
case when c.LAST_NAME+c.FIRST_NAME+c.MIDDLE_NAME =
b.LAST_NAME+b.FIRST_NAME+b.MIDDLE_NAME then 'MATCH' else 'NO MATCH' end as
[Oct-Nov Name],
case when c.RESIDENTIAL_ADDRESS1+c.RESIDENTIAL_CITY =
b.RESIDENTIAL_ADDRESS1+b.RESIDENTIAL_CITY then 'MATCH' else 'NO MATCH' end
as [Oct-Nov Address],
case when c.DATE_OF_BIRTH = b.DATE_OF_BIRTH then 'MATCH' else 'NO MATCH' end as
[Oct-Nov DOB],
a.SOS_VOTERID as SepSOSID, a.VOTER_STATUS as SepStatus, b.SOS_VOTERID as OctSOSID,
b.VOTER_STATUS as OctStatus,c.SOS_VOTERID as NovSOSID, c.VOTER_STATUS as
NovStatus, e.[County Name],
a.LAST_NAME+', '+a.FIRST_NAME+ ' '+ a.MIDDLE_NAME as SepName, b.LAST_NAME+',
'+b.FIRST_NAME+' '+b.MIDDLE_NAME as OctName, c.LAST_NAME+',
'+c.FIRST_NAME+' '+c.MIDDLE_NAME as NovName,
a.RESIDENTIAL_ADDRESS1+', '+a.RESIDENTIAL_CITY as SepAddress,
b.RESIDENTIAL_ADDRESS1+', '+b.RESIDENTIAL_CITY as OctAddress,
c.RESIDENTIAL_ADDRESS1+', '+c.RESIDENTIAL_CITY as NovAddress,
b.REGISTRATION_DATE, a.DATE_OF_BIRTH as SepDOB, b.DATE_OF_BIRTH as OctDOB,
c.DATE_OF_BIRTH as NovDOB
from dbo.SWVF_091121 a full outer join dbo.SWVF_101621 b on
a.SOS_VOTERID=b.SOS_VOTERID full outer join
dbo.SWVF_112721 c on b.SOS_VOTERID=c.SOS_VOTERID inner join dbo.OH_Counties
e on b.COUNTY_NUMBER=e.County_Number
where
a.sos_voterid <> b.SOS_VOTERID or c.sos_voterid <> b.SOS_VOTERID or
a.LAST_NAME+a.FIRST_NAME+a.MIDDLE_NAME <>
b.LAST_NAME+b.FIRST_NAME+b.MIDDLE_NAME or
c.LAST_NAME+c.FIRST_NAME+c.MIDDLE_NAME <>
b.LAST_NAME+b.FIRST_NAME+b.MIDDLE_NAME or
a.RESIDENTIAL_ADDRESS1+a.RESIDENTIAL_CITY <>
b.RESIDENTIAL_ADDRESS1+b.RESIDENTIAL_CITY or
c.RESIDENTIAL_ADDRESS1+c.RESIDENTIAL_CITY <>
b.RESIDENTIAL_ADDRESS1+b.RESIDENTIAL_CITY or

```

a.DATE_OF_BIRTH <> b.DATE_OF_BIRTH or
c.DATE_OF_BIRTH <> b.DATE_OF_BIRTH

Comparing September to October files, 707 voters' dates of birth changed; however, since September is the first month being evaluated it is possible that some of these are new registrations after 9/11/21. Removing that possibility, 169 already registered voters had their birth dates changed. Comparing October to November, 223 registered voters' birth dates changed. **37 voters became between 6 months and 50 years younger**, and 30 voters **became between 6 months and 40 years older**. One can surmise that the changes to dates of birth may be corrections, which is a good thing. However, the number of corrections that are required point to a system that lacks control over data entry processes.

Comparing the existence of SOS_VoterID values between the files 72 Voter IDs with ACTIVE Voter Status in October did not appear in the November file and were apparently deleted. The process for removing voters is a 4-year process so the reason for an ACTIVE voter to be removed requires further evaluation.

Conclusions

Based on the counties evaluated there are obvious synchronization issues. In every county evaluated there is disagreement between state and county as to the number of registered voters. When comparing data for the same voter, discrepancies exist between, names, addresses, dates, voter status, and voting history. If the databases were synchronized these discrepancies would not exist. **Which database is correct?** If both the SOS and the county are making changes, who is ultimately accountable for accuracy of the voter registration files?

Replication is a database technology designed to keep two or more databases in sync. If replication technology is being used to keep the county and state databases aligned, it does not appear to be working properly.

Birth dates should remain constant over time, but for some reason they don't. One voter was registered in September 2021, and their birth date changed in October and November. The discrepancies discovered should be corrected, and the process for entering and checking birth dates should be improved. The SoS has access to BMV and Social Security data for each voter so determining accurate birth dates should be straight forward. If data must be manually entered, double entry should be used to avoid errors.

PART 3 – ISSUES REQUIRING RESEARCH AND REMEDY

This part of the report examines official certified election results and compares those with the election history in the SWVF. The results discussed below are curious because they are not normal, likely invalid or incorrect, possibly fraudulent, and worthy of further investigation.

Voters Registered at Colleges

The following query identifies addresses with high numbers of registered voters. Many of these addresses are at colleges or universities.

```
select b.[County Name], RESIDENTIAL_ADDRESS1 + ', ' + RESIDENTIAL_CITY + ', OH ' +
RESIDENTIAL_ZIP as FullAddress
, count(*) as ADDRESS_COUNT
, sum(case when datediff(year, DATE_OF_BIRTH, '2021-11-27') >=25 then 1
else 0 end) as NumVoters_25YO
, sum(case when datediff(year, REGISTRATION_DATE, '2021-11-27') > 5 then 1
else 0 end) as NumReg_MT_5Y
, sum(case GENERAL_11_03_2020 when null then 0 else 1 end) Num_Voted
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
a.COUNTY_NUMBER=b.County_Number
group by
RESIDENTIAL_ADDRESS1
, RESIDENTIAL_SECONDARY_ADDR
, RESIDENTIAL_CITY
, RESIDENTIAL_ZIP
, b.[County Name]
having count(*) > 7
order by count(*) desc
```

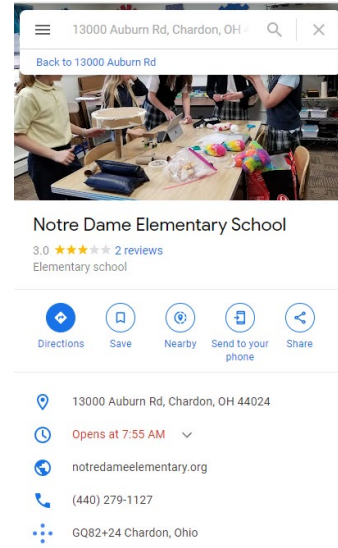
The query above returns 3,971 addresses with more than 7 voters registered at that address. The table below lists the top 50 addresses with multiple registered voters, the type of facility at the address, the number of registered voters at the address, the number of registered voters 25 years of age and older, and the number that voted in the Nov 2020 Presidential election. Google maps and Street View were used to identify the type of facility at the address.

County Name	Full Address	FACILITY	REG VOTER COUNT	Num Voters 25YO+	Num Registered 5+ yrs	Num Voted
Cuyahoga	2100 LAKESIDE AVE, CLEVELAND, OH 44114	SHELTER	1019	1004	82	52
Greene	1400 BRUSH ROW RD, WILBERFORCE, OH 45384	CENTRAL STATE	839	257	152	127
Montgomery	300 COLLEGE PARK AVE, DAYTON, OH 45469	UNIV OF DAYTON	775	157	99	101
Cuyahoga	2227 PAYNE AVE, CLEVELAND, OH 44114	SHELTER	365	348	28	46
Franklin	595 VAN BUREN DR, COLUMBUS, OH 43223	VOL OF AMERICA	323	298	101	6
Hamilton	117 E 12TH ST, CINCINNATI, OH 45202	SHELTER	287	280	169	21
Summit	175 E MARKET ST, AKRON, OH 44308	SHELTER	275	266	144	6
Montgomery	1921 S GETTYSBURG AVE, DAYTON, OH 45417	SHELTER	262	259	129	22
Lorain	95 UNION ST, OBERLIN, OH 44074	OBERLIN COLLEGE	245	78	62	101
Lorain	121 ELM ST, OBERLIN, OH 44074	OBERLIN COLLEGE	219	75	60	72
Greene	1055 N BICKETT RD, WILBERFORCE, OH 45384	WILBERFORCE UNIV	216	78	40	10
Franklin	924 E MAIN ST, COLUMBUS, OH 43205	SHELTER	209	207	102	6
Wayne	1101 BEALL AVE, WOOSTER, OH 44691	COLLEGE OF WOOSTER	207	147	122	38

County Name	Full Address	FACILITY	REG VOTER COUNT	Num Voters 25YO+	Num Registered 5+ yrs	Num Voted
Montgomery	120 W APPLE ST, DAYTON, OH 45402	UNIV OF DAYTON	187	177	84	14
Franklin	40 W LONG ST, COLUMBUS, OH 43215	SHELTER	187	178	62	28
Shelby	19100 E SHELBY RD, NEW KNOXVILLE, OH 45871	RELIGIOUS CENTER	185	171	86	97
Lorain	176 N PROFESSOR ST, OBERLIN, OH 44074	OBERLIN COLLEGE	185	53	36	73
Hamilton	411 GEST ST, CINCINNATI, OH 45203	SHELTER	172	171	52	6
Lucas	105 17TH ST, TOLEDO, OH 43604	SHELTER	170	168	95	9
Franklin	61 E MOUND ST, COLUMBUS, OH 43215	SHELTER	167	165	89	21
Lorain	194 N PROFESSOR ST, OBERLIN, OH 44074	OBERLIN COLLEGE	165	51	47	58
Wayne	1406 BEALL AVE, WOOSTER, OH 44691	COLLEGE OF WOOSTER	165	84	79	10
Cuyahoga	27100 CEDAR RD, BEACHWOOD, OH 44122	APARTMENTS	163	163	7	104
Erie	3416 COLUMBUS AVE, SANDUSKY, OH 44870	VETERANS HOME	158	158	68	115
Geauga	13000 AUBURN RD, CHARDON, OH 44024	K-8 SCHOOL	153	153	113	145
Knox	202 GASKIN AVE, GAMBIER, OH 43022	KENYON COLLEGE	149	29	24	48
Franklin	245 N GRANT AVE, COLUMBUS, OH 43215	SHELTER	137	133	58	13
Hamilton	1101 SUMMIT RD, CINCINNATI, OH 45237	PSYCH HOSPITAL	136	132	70	31
Stark	2550 CLEVELAND AVE NW, CANTON, OH 44709	MALONE UNIV	134	134	27	82
Franklin	80 W ELEVENTH AVE, COLUMBUS, OH 43210	OHIO STATE UNIV	126	17	19	51
Cuyahoga	3135 LORAIN AVE, CLEVELAND, OH 44113	SHELTER	125	122	23	12
Montgomery	3849 GERMANTOWN PIKE, DAYTON, OH 45417	CARREER COLLEGE	125	78	45	0
Knox	217 N ACLAND ST, GAMBIER, OH 43022	KENYON COLLEGE	123	47	27	53
Wayne	1209 N BEVER ST, WOOSTER, OH 44691	COLLEGE OF WOOSTER	123	97	74	10
Lorain	169 N PROFESSOR ST, OBERLIN, OH 44074	OBERLIN COLLEGE	122	16	15	50
Greene	251 N MAIN ST, CEDARVILLE, OH 45314	CEDARVILLE UNIV	120	60	21	46
Cuyahoga	1710 PROSPECT AVE, CLEVELAND, OH 44115	SHELTER	119	115	11	6
Greene	1 MORGAN PL, YELLOW SPRINGS, OH 45387	ANTIOCH COLLEGE	117	81	52	13
Knox	215 N ACLAND ST, GAMBIER, OH 43022	KENYON COLLEGE	114	15	12	34
Lorain	140 W COLLEGE ST, OBERLIN, OH 44074	OBERLIN COLLEGE	113	18	20	44
Franklin	4595 GENDER RD, CANAL WINCHESTER, OH 43110	VALOR COLLEGE	113	62	39	27
Knox	206 COLLEGE-PARK ST, GAMBIER, OH 43022	KENYON COLLEGE	111	53	34	21
Wayne	1330 BEALL AVE, WOOSTER, OH 44691	COLLEGE OF WOOSTER	109	78	60	13
Cuyahoga	5520 BROADVIEW RD, PARMA, OH 44134	CONDOMINIUMS	109	109	8	54
Cuyahoga	1 JOHN CARROLL BLVD, UNIVERSITY HTS, OH 44118	JOHN CARROLL UNIV	107	34	3	14
Montgomery	6451 FAR HILLS AVE, CENTERVILLE, OH 45459	SENIOR CARE	106	106	85	62
Cuyahoga	4545 COLLEGE RD, SOUTH EUCLID, OH 44121	NOTRE DAME COLLEGE	105	44	3	25
Hamilton	990 BAYLEY PLACE DR, CINCINNATI, OH 45233	SENIOR CARE	105	105	98	82
Hamilton	682 HAWTHORNE AVE, CINCINNATI, OH 45205	SMALL CHURCH	104	100	61	40
Cuyahoga	13421 COIT RD, CLEVELAND, OH 44110	CARREER COLLEGE	103	53	26	4

Colleges and Universities are prevalent on the list. In addition, college and university addresses have many persons over 25 years old registered at their address. Many of those voters were registered more than 5 years ago. It is likely that these persons either have enormous student loan debt, or they have left the college and these are no longer valid registrations, particularly if the registration is more than 5 years old.

One address in the Top 50 list above, 13000 AUBURN RD, CHARDON, OH 44024 in Geauga County, is **the address of Notre Dame high school and elementary school complex**. According to the state wide voter database there are 153 registered voters living at the school, 115 of them have been registered there for over 5 years, and all 153 of the voted in the November 3rd 2020 Presidential election.



In 2014 Judicial Watch and True The Vote [settled litigation](#) relevant to compliance with the National Voter Registration Act with then Ohio Secretary of State Jon Husted. The settlement required the SoS to use reasonable efforts to promote the expanded use of Ohio's voter registration online change of address system to recent college graduates, including education to remind students to keep their registration current. The large number of aging registrations at college addresses noted in the table above indicates that the SoS should begin an aggressive effort to purge invalid voter registrations at college addresses.

Registered After Voting in an Election

The following query searches for voters registered after the November 3rd, 2020 Presidential election even though they voted in that election.

```
select REGISTRATION_DATE, PARTY_AFFILIATION, SOS_VOTERID, COUNTY_ID, [County
Name], VOTER_STATUS, GENERAL_11_03_2020
from dbo.SWVF_112721 a inner join dbo.OH_Counties b on
a.COUNTY_NUMBER=b.County_Number
where REGISTRATION_DATE > '11-03-2020' and GENERAL_11_03_2020 like 'X'
order by REGISTRATION_DATE desc -- 162,451 rows, 151,443 after 12/3/2020
```

162, 451 voters voted on 11/3/2020 despite being registered after 11/3/2020.

A county board of elections official explained. Persons allowed to cast provisional ballots are marked as having voted in an election and their voter registration is then updated after the election. Allowing 30 days to enter those registration updates (and assuming the registration date was changed even though these are updates and not new registrations), 151,443 voters voted 11/3/2020 have registrations later than 12/3/2020. Another explanation was that when voters update their address after moving from one county to another, they receive a new registration date. That explanation does not seem to account for the volume of post-election registrations observed. [Ohio Realtors](#) reported 169,585 home sales in 2021. Many of these would be within the same county and not result in new registrations. The large number of post-election registrations deserves further investigation and verification against other data the SoS has available to him.

Gaps in the SOS_VOTERID Sequence

It is common in database architecture to assign a unique record identifier to reach record in a table. These unique identifiers are typically sequential numbers automatically assigned by the database system. In the statewide voter files and database, the SOS_VOTERID column is this type of sequentially assigned unique identifier. When a sorted list of these identifiers is viewed gaps in the sequence of the identifiers is apparent. Gaps occur when records are deleted. In the statewide datafile downloaded from the SOS website on 11/27/21, the lowest sequence number is OH001000000 and the highest is

OH0026340375. Between, there are 8,362,751 missing SOS_VOTERIDs between these numbers signifying potentially 8.3 million deleted voter registration records. It is possible some of these records exist in the database but are not available for public download. However, investigators in other states report that one fraud mechanism it to inflate voter rolls and then remove those “ghost” voters after the election. Adding and removing “ghost” voters would create gaps in the SOS_VOTERID sequence. Given the extraordinary number of potentially deleted records reasons for deleting the records or preventing their inclusion in the SWVF downloadable data should be evaluated.

Multiple Voters Registered at Mobile Home Park Lots

The following query identifies addresses that have a secondary address with the type “Lot” having more than 2 registered voters at that address. Most of these lots are mobile homes and unlikely to comfortably house more than a couple adults.

```
select SOS_VOTERID, [County Name], c.NumVoters, LAST_NAME, FIRST_NAME,
MIDDLE_NAME, SUFFIX, date_of_birth, DATEDIFF(year,date_of_birth,'2021-09-
16') as AGE, REGISTRATION_DATE, VOTER_STATUS,
RESIDENTIAL_ADDRESS1 +', ' + RESIDENTIAL_SECONDARY_ADDR + ', ' +
RESIDENTIAL_CITY +', ' + RESIDENTIAL_STATE + ' ' + RESIDENTIAL_ZIP as
FullAddress
from dbo.SWVF_112721 a inner join OH_Counties b on a.COUNTY_NUMBER=b.County_Number
inner join
(select RESIDENTIAL_CITY+RESIDENTIAL_ADDRESS1+RESIDENTIAL_SECONDARY_ADDR as
AddressCombined, count(*) as NumVoters
from dbo.SWVF_112721
where RESIDENTIAL_SECONDARY_ADDR like 'LOT%'
GROUP BY RESIDENTIAL_CITY, RESIDENTIAL_ADDRESS1, RESIDENTIAL_SECONDARY_ADDR
HAVING COUNT(*)>2) c
on
a.RESIDENTIAL_CITY+a.RESIDENTIAL_ADDRESS1+a.RESIDENTIAL_SECONDARY_ADDR=c.Ad
dressCombined
order by c.NumVoters desc, RESIDENTIAL_CITY, RESIDENTIAL_ADDRESS1,
RESIDENTIAL_SECONDARY_ADDR
```

The table below is a partial listing of the results of this query. As an example, the first 7 voters listed all live at 23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551. Most appear to be family members; however, one individual has a different last name. Google maps has [a photo of this residence](#). 2 voters have CONFIRMATION status indicating there is a reason the board of elections believes the registration is not valid, perhaps due to a different address on file with the BMV. Still, one would imagine it difficult for 5 adults to occupy this residence.



At 4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103, 6 voters with 5 different last names are listed as active voters suggesting that the residents have moved but the registrations have not kept up with that activity.

The query produces 2167 addresses and 7038 registered voters with similar issues. We can speculate that many of these voter registrations are no longer valid, and the Board of Elections or SOS can confirm addresses and identities by cross-checking with other databases such as the BMV and Social Security.

SOS VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	AGE	REGISTRATION DATE	VOTER STATUS	Full Address
OH0025080350	Wood	LONG	KAYLA	NICOLE	21	2019-04-15	CONFIRMATION	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0012815303	Wood	LONG	FRANK	C	50	2004-03-20	ACTIVE	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0023195557	Wood	LONG	AARON	PAUL	26	2015-07-10	ACTIVE	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0012815218	Wood	LONG	SHERRY	LYNN	50	2002-07-31	ACTIVE	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0026010162	Wood	LONG	SARAH	COLLEEN	19	2020-10-05	ACTIVE	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0023852968	Wood	LONG	HOPE	ANN	23	2016-08-22	CONFIRMATION	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0023617564	Wood	KUHLENBECK	ABBY	MARIE	23	2021-05-24	ACTIVE	23720 LIME CITY RD, LOT 142, PERRYSBURG, OH 43551
OH0026261073	Portage	BREIDING	KYLE	SCOTT	30	2021-08-17	ACTIVE	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0026133621	Portage	BREIDING	BRITTANY	KATE	33	2021-01-27	ACTIVE	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0024968912	Portage	THOMAS	DREW	ADAM	22	2018-10-23	CONFIRMATION	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0010911775	Portage	THOMAS	MICHAEL	TROY	53	1992-09-22	CONFIRMATION	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0023131323	Portage	THOMAS	DANIEL	A	24	2015-05-18	CONFIRMATION	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0012269706	Portage	THOMAS	NICOLE	MARIE	50	1992-10-05	CONFIRMATION	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0022422533	Portage	THOMAS	DUSTIN	ANTHONY	26	2013-05-25	CONFIRMATION	6605 STATE ROUTE 5, LOT 64, RAVENNA, OH 44266
OH0010357566	Pickaway	BAILEY	REBECCA	A	71	1989-10-10	ACTIVE	4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103
OH0025576527	Pickaway	WIRTH	JAMES	R	52	2020-06-11	ACTIVE	4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103
OH0010358488	Pickaway	BLAIR	LAWRENCE	E	46	2020-10-01	ACTIVE	4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103
OH0010357568	Pickaway	BAILEY	ROBERT	J	65	2001-12-11	ACTIVE	4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103
OH0019294185	Pickaway	MOYERS	ANNE	R	51	2007-10-09	ACTIVE	4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103
OH0023311411	Pickaway	HOUSH	DAVID	L	43	2015-09-24	ACTIVE	4800 DUVALL RD, LOT 224, ASHVILLE, OH 43103
OH0021635904	Wood	LEWIS	ROBERT	K	51	2011-12-23	CONFIRMATION	535 W GYPSY LANE RD, LOT 118A, BOWLING GREEN, OH 43402
OH0012770478	Wood	LEWIS	KIMBERLY	K	52	2014-05-16	CONFIRMATION	535 W GYPSY LANE RD, LOT 118A, BOWLING GREEN, OH 43402
OH0022853241	Wood	LEWIS	VIRGINIA	LYNN	41	2021-09-04	ACTIVE	535 W GYPSY LANE RD, LOT 118A, BOWLING GREEN, OH 43402
OH0012775303	Wood	LEWIS	BEVERLY	J	75	2006-08-27	ACTIVE	535 W GYPSY LANE RD, LOT 118A, BOWLING GREEN, OH 43402

SOS VOTERID	County Name	LAST NAME	FIRST NAME	MIDDLE NAME	AGE	REGISTRATION DATE	VOTER STATUS	Full Address
OH0022924420	Wood	LEWIS	NATHANIAL	RICHARD	35	2021-06-30	ACTIVE	535 W GYPSY LANE RD, LOT 118A, BOWLING GREEN, OH 43402
OH0022371976	Wood	GRAVES	SARAH	E	28	2013-04-08	CONFIRMATION	535 W GYPSY LANE RD, LOT 118A, BOWLING GREEN, OH 43402
OH0021273817	Marion	LANDRUM	SUE	M	29	12/6/2010	CONFIRMATION	3068 MARION WALDO RD, LOT 13, MARION, OH 43302
OH0018952073	Marion	ROBERTS	THOMAS	A	50	7/25/2018	ACTIVE	3068 MARION WALDO RD, LOT 13, MARION, OH 43302
OH0012225947	Marion	TIMMONS	ERIC	DAVID	39	6/17/2002	CONFIRMATION	3068 MARION WALDO RD, LOT 13, MARION, OH 43302
OH0026106030	Marion	ROBERTS	JAMES	DANIEL	54	11/30/2020	ACTIVE	3068 MARION WALDO RD, LOT 13, MARION, OH 43302
OH0026139652	Marion	ROBERTS	SHARON	M	52	2/1/2021	ACTIVE	3068 MARION WALDO RD, LOT 13, MARION, OH 43302
OH0012225933	Marion	TIMMONS	EDWARD	E	75	10/27/1988	CONFIRMATION	3068 MARION WALDO RD, LOT 13, MARION, OH 43302

COMPARING THE SWVF WITH ELECTION RESULTS

Official election results are archived on the SoS website. Since the SWVF includes voter history for several elections it is interesting to tally the voter history and compare it to the official results. However, while doing this we must consider that some persons that voted in an election may have been removed from the voter registration database for valid reasons and are no longer included in the 11/27/21 SWVF.

November 2020 Presidential Election

For the 11/3/2020 Presidential election, the table below compares the [General Election Official Canvass County Level Voter Turnout Report](#) with the data reported in the 11/27/21 SWVF.

County Name	Registered Voters	Ballots Counted	Official Voter Turnout	SWVF Voted On 11-03-20	Difference
Adams	17,246	12,280	71.2%	12,150	-130
Allen	67,374	48,353	71.8%	47,735	-618
Ashland	34,837	26,771	76.8%	26,384	-387
Ashtabula	61,453	44,649	72.7%	44,076	-573
Athens	39,344	26,350	67.0%	26,177	-173
Auglaize	32,489	25,940	79.8%	25,655	-285
Belmont	46,315	33,364	72.0%	32,972	-392
Brown	29,069	21,268	73.2%	21,058	-210
Butler	256,908	187,828	73.1%	185,533	-2,295
Carroll	18,416	14,303	77.7%	14,174	-129
Champaign	26,492	20,096	75.9%	19,855	-241
Clark	89,826	64,710	72.0%	63,863	-847
Clermont	145,129	111,333	76.7%	110,502	-831
Clinton	27,616	20,657	74.8%	20,408	-249
Columbiana	66,293	50,411	76.0%	49,800	-611
Coshocton	22,730	16,900	74.4%	16,650	-250

County Name	Registered Voters	Ballots Counted	Official Voter Turnout	SWVF Voted On 11-03-20	Difference
Crawford	28,211	20,860	73.9%	20,527	-333
Cuyahoga	888,556	631,199	71.0%	621,995	-9,204
Darke	34,669	27,371	78.9%	27,003	-368
Defiance	26,411	19,613	74.3%	19,302	-311
Delaware	151,756	127,111	83.8%	127,024	-87
Erie	54,129	40,783	75.3%	40,365	-418
Fairfield	109,176	84,061	77.0%	83,547	-514
Fayette	17,180	12,704	73.9%	12,582	-122
Franklin	882,635	636,056	72.1%	622,893	-13,163
Fulton	29,496	22,982	77.9%	22,662	-320
Gallia	18,982	13,922	73.3%	13,777	-145
Geauga	67,969	56,600	83.3%	56,085	-515
Greene	118,938	89,627	75.4%	88,905	-722
Guernsey	24,549	18,383	74.9%	18,167	-216
Hamilton	600,386	434,956	72.4%	428,264	-6,692
Hancock	51,714	39,066	75.5%	38,580	-486
Hardin	18,211	13,388	73.5%	13,086	-302
Harrison	10,205	7,726	75.7%	7,611	-115
Henry	19,710	14,907	75.6%	14,711	-196
Highland	27,351	19,792	72.4%	19,581	-211
Hocking	18,645	13,915	74.6%	13,732	-183
Holmes	18,286	13,246	72.4%	13,041	-205
Huron	36,886	27,397	74.3%	27,065	-332
Jackson	21,013	14,932	71.1%	14,778	-154
Jefferson	48,167	33,694	70.0%	33,134	-560
Knox	42,320	31,595	74.7%	31,313	-282
Lake	163,936	131,603	80.3%	130,308	-1,295
Lawrence	44,119	28,473	64.5%	28,084	-389
Licking	124,208	94,899	76.4%	93,902	-997
Logan	32,218	23,706	73.6%	23,559	-147
Lorain	218,501	158,732	72.6%	157,505	-1,227
Lucas	299,794	202,321	67.5%	199,734	-2,587
Madison	25,827	19,984	77.4%	19,853	-131
Mahoning	165,259	119,968	72.6%	118,278	-1,690
Marion	40,262	28,151	69.9%	27,791	-360
Medina	130,169	106,755	82.0%	106,221	-534
Meigs	15,414	11,091	72.0%	10,958	-133
Mercer	29,398	23,907	81.3%	23,682	-225
Miami	75,470	58,361	77.3%	57,877	-484

County Name	Registered Voters	Ballots Counted	Official Voter Turnout	SWVF Voted On 11-03-20	Difference
Monroe	9,572	7,249	75.7%	7,116	-133
Montgomery	372,139	270,531	72.7%	267,380	-3,151
Morgan	9,262	6,908	74.6%	6,801	-107
Morrow	25,186	18,570	73.7%	18,426	-144
Muskingum	55,078	40,766	74.0%	40,379	-387
Noble	8,138	6,461	79.4%	6,383	-78
Ottawa	30,442	24,243	79.6%	23,984	-259
Paulding	12,811	9,576	74.7%	9,472	-104
Perry	22,541	16,840	74.7%	16,624	-216
Pickaway	36,306	28,480	78.4%	28,302	-178
Pike	18,124	12,536	69.2%	12,340	-196
Portage	108,884	83,475	76.7%	82,779	-696
Preble	28,654	21,982	76.7%	21,725	-257
Putnam	23,859	20,072	84.1%	19,794	-278
Richland	82,754	60,336	72.9%	59,579	-757
Ross	46,037	33,558	72.9%	33,261	-297
Sandusky	40,470	30,453	75.2%	29,973	-480
Scioto	46,120	32,351	70.1%	32,053	-298
Seneca	34,413	26,068	75.8%	25,600	-468
Shelby	32,843	25,449	77.5%	25,219	-230
Stark	252,972	191,252	75.6%	189,686	-1,566
Summit	379,673	283,705	74.7%	280,352	-3,353
Trumbull	136,895	101,813	74.4%	100,439	-1,374
Tuscarawas	59,638	44,580	74.8%	44,026	-554
Union	41,432	33,705	81.4%	33,833	128
VanWert	20,291	15,077	74.3%	14,859	-218
Vinton	8,627	6,105	70.8%	6,086	-19
Warren	167,606	137,187	81.9%	136,405	-782
Washington	42,774	32,343	75.6%	31,746	-597
Wayne	74,470	54,848	73.7%	54,382	-466
Williams	25,515	18,963	74.3%	18,755	-208
Wood	93,149	68,103	73.1%	67,213	-890
Wyandot	15,491	11,486	74.1%	11,324	-162

The ballots cast (voted) tally in the 11/27/21 SWVF file is short over 73,000 votes from the posted official Nov 3, 2020 election results. In the SWVF data, every county has fewer 11/3/20 voters than the official results state. What happened to the 73,351 voters that disappeared from the voter rolls? Did they all move out of state? An investigation to explain the lost vote tallies needs to address these questions.

Another observation relates to the SoS [General Election Official Canvass Precinct Level Voter Turnout Report](#). 66 precincts in this election had an unprecedented 90% or higher turnout. The following table filters the report to show those precincts.

November 3, 2020 General Election Official Canvass Precinct Level Voter Turnout Report							
County Name	Precinct Name	Precinct Code	Region Name	Media Market	Registered Voters	Ballots Counted	Official Voter Turnout
Butler	HAM16WD1	ACF	Southwest	Cincinnati	251	227	90.44%
Cuyahoga	BRECKSVILLE-00-H	AEY	Northeast	Cleveland	1,038	951	91.62%
Cuyahoga	FAIRVIEW PARK-01-A	BRM	Northeast	Cleveland	948	862	90.93%
Cuyahoga	ROCKY RIVER-01-B	COF	Northeast	Cleveland	1,008	911	90.38%
Cuyahoga	VALLEY VIEW-00-B	DCM	Northeast	Cleveland	756	681	90.08%
Darke	PRECINCT WABASH AND NORTH STAR VILLAGE	ABT	West	Dayton	637	576	90.42%
Delaware	PRECINCT GENOA F	ACE	Central	Columbus	738	665	90.11%
Delaware	PRECINCT POWELL D	ACY	Central	Columbus	811	736	90.75%
Delaware	PRECINCT POWELL H	AEY	Central	Columbus	1,049	949	90.47%
Delaware	PRECINCT GENOA S	AFV	Central	Columbus	648	584	90.12%
Delaware	PRECINCT WESTERVILLE CITY H	AGC	Central	Columbus	769	710	92.33%
Franklin	BEXLEY 2-B	AAE	Central	Columbus	1,226	1,107	90.29%
Franklin	BEXLEY 4-B	AAK	Central	Columbus	810	735	90.74%
Franklin	COLS 19-A	ADW	Central	Columbus	829	749	90.35%
Franklin	COLS 19-C	ADY	Central	Columbus	930	858	92.26%
Franklin	COLS 19-E	AEA	Central	Columbus	763	702	92.01%
Franklin	COLS 20-A	AEE	Central	Columbus	1,468	1,328	90.46%
Franklin	COLS 21-E	AEL	Central	Columbus	1,083	994	91.78%
Franklin	COLS 21-F	AEM	Central	Columbus	898	809	90.09%
Franklin	COLS 72-A	AQL	Central	Columbus	795	721	90.69%
Franklin	COLS 72-D	AQO	Central	Columbus	780	719	92.18%
Franklin	GAH 4-D	ASQ	Central	Columbus	878	816	92.94%
Franklin	GRANDVIEW-B	ASV	Central	Columbus	938	849	90.51%
Franklin	UA 1-E	AVE	Central	Columbus	891	811	91.02%
Franklin	UA 3-A	AVL	Central	Columbus	811	745	91.86%
Franklin	UA 4-A	AVQ	Central	Columbus	904	822	90.93%
Franklin	UA 6-C	AWD	Central	Columbus	575	532	92.52%
Franklin	UA 6-D	AWE	Central	Columbus	1,475	1,332	90.31%
Franklin	WORTH 1-A	AXU	Central	Columbus	921	832	90.34%
Franklin	WORTH 1-B	AXV	Central	Columbus	807	739	91.57%
Franklin	WORTH 1-C	AXW	Central	Columbus	921	834	90.55%
Franklin	WORTH 1-D	AXX	Central	Columbus	488	453	92.83%
Franklin	WORTH 3-A	AYB	Central	Columbus	715	646	90.35%
Franklin	WORTH 3-B	AYC	Central	Columbus	890	816	91.69%

**November 3, 2020 General Election Official Canvass
Precinct Level Voter Turnout Report**

County Name	Precinct Name	Precinct Code	Region Name	Media Market	Registered Voters	Ballots Counted	Official Voter Turnout
Franklin	WORTH 4-C	AYH	Central	Columbus	617	557	90.28%
Franklin	PERRY-A	BAP	Central	Columbus	773	705	91.20%
Franklin	RIVERLEA-A	BBQ	Central	Columbus	483	451	93.37%
Franklin	GAH 2-F	BDB	Central	Columbus	387	356	91.99%
Franklin	HILL 2-F	BMF	Central	Columbus	637	575	90.27%
Geauga	PRECINCT CHARDON TWP B	AAX	Northeast	Cleveland	633	570	90.05%
Geauga	PRECINCT MUNSON TWP F	ACE	Northeast	Cleveland	991	903	91.12%
Geauga	PRECINCT RUSSELL TWP A	ACR	Northeast	Cleveland	947	867	91.55%
Hamilton	COLUMBIA H	BDN	Southwest	Cincinnati	2	2	100.00%
Hamilton	COLUMBIA I	BDO	Southwest	Cincinnati	11	10	90.91%
Hamilton	GREEN MM	BHT	Southwest	Cincinnati	707	638	90.24%
Lake	PRECINCT MENTOR CITY 1G	ABB	Northeast	Cleveland	1,028	929	90.37%
Lake	PRECINCT CONCORD TWP B	AFK	Northeast	Cleveland	895	825	92.18%
Lake	PRECINCT LAKELINE VILLAGE AA	AFU	Northeast	Cleveland	161	150	93.17%
Lake	PRECINCT WAITE HILL VLG AA	AHF	Northeast	Cleveland	426	384	90.14%
Lake	PRECINCT CONCORD TWP K	AHX	Northeast	Cleveland	665	615	92.48%
Lorain	PRECINCT N. RIDGEVILLE 3-H	ALL	Northeast	Cleveland	935	865	92.51%
Mahoning	PRECINCT BVT 6	AJR	Northeast	Youngstown	330	297	90.00%
Mahoning	PRECINCT ELT 1	ANG	Northeast	Youngstown	792	868	109.60%
Mercer	GRANVILLE TOWNSHIP EAST	AAZ	West	Dayton	520	484	93.08%
Mercer	MARION EAST	ABL	West	Dayton	1,113	1,028	92.36%
Mercer	MARION WEST	ABM	West	Dayton	1,131	1,023	90.45%
Mercer	RECOVERY TOWNSHIP	ABO	West	Dayton	852	767	90.02%
Putnam	MONTEREY TWP	AAO	Northwest	Toledo	801	739	92.26%
Putnam	PLEASANT TWP	ABF	Northwest	Toledo	1,202	1,083	90.10%
Putnam	UNION TWP	ABQ	Northwest	Toledo	1,088	1,008	92.65%
Putnam	OTTAWA TWP. WEST	ABZ	Northwest	Toledo	754	682	90.45%
Seneca	PRECINCT CLINTON E	ABU	Northwest	Toledo	386	350	90.67%
Union	JEROME 1	ABA	Central	Columbus	1,342	1,211	90.24%
Union	JEROME 5	ABF	Central	Columbus	680	615	90.44%
Union	JEROME 6	ACC	Central	Columbus	838	769	91.77%
Warren	HAMILTON TWP U	AHE	Southwest	Cincinnati	951	871	91.59%

Mahoning County, Precinct ELT1, reports 109.6% turnout with 868 ballots cast but only 792 registered voters. Eye-catching, but the results include an explanation that a poll worker erroneously provided precinct ELT2 voters ELT1 ballots causing turnout in ELT1 to appear inflated.

90% turnout is unusual to the point one must suspect fraud was involved. In the November 2016 Presidential election 7 precincts had turnout of 90% or more. However, 2 precincts had less than 10 registered voters so effectively 5 precincts saw turnout of 90% or more. In the November 2012 Presidential election 13 precincts had turnout of 90% or more (3 precincts had 10 or fewer registered voters). The 66 precincts that had 90%+ turnout in the Nov 2020 Presidential election are candidates for a full audit with inspection of paper ballots, analysis of voting systems, computer security, and review of election processes.

November 2008 Presidential Election

We continued the turnout evaluation with an examination of the November 2008 Presidential election as well. It should never be the case that a precinct reports more votes than voters. However, reviewing [2008 Official Results](#) available from the SOS website, we discovered that **102 precincts reported over 100% turnout with more ballots cast than registered voters**. 14 county board of elections each comprised of 2 Republicans and 2 Democrats appointed by the Secretary of State and sworn by oath to faithfully perform their duties, certified results. At the time, the Ohio Secretary of State that certified these results was Jennifer Brunner. While 2008 is come and gone citizens should be aware of the counties listed in the table below whose Board of Elections certified the results.

**OFFICIAL RESULTS
GENERAL ELECTION - NOVEMBER 4, 2008
(Precincts with more ballots than voters)**

COUNTY NUMBER	COUNTY NAME	STATE PRC CODE	PRECINCT NAME	REGISTERED VOTERS TOTAL	BALLOTS CAST TOTAL
4	ASHTABULA	04052-ACB	ANDOVER VILLAGE 1	222	444
4	ASHTABULA	04053-ACC	ANDOVER VILLAGE 2	224	448
4	ASHTABULA	04030-ABD	CONNEAUT 1-C	470	2925
9	BUTLER	09-P-AKW	FAIRFIELD TWP FFTWP14	6	61
9	BUTLER	09-P-AJX	WEST CHESTER TWP WC41	1334	9640
14	CLINTON	14ABC	PRECINCT LIBERTY	594	978
25	FRANKLIN	25-YYY	FEDERAL	0	535
35	HENRY	35-P-AAJ	BARTLOW TWP	459	518
35	HENRY	35-P-AAK	DAMASCUS TWP	775	933
35	HENRY	35-P-AAN	FLATROCK TWP NORTH	287	294
35	HENRY	35-P-AAO	FLATROCK TWP SOUTH	603	624
35	HENRY	35-P-AAP	FREEDOM TWP	701	785
35	HENRY	35-P-AAR	HAMLER VILLAGE	407	427
35	HENRY	35-P-AAQ	HARRISON TWP	759	800
35	HENRY	35-P-AAT	LIBERTY TWP NORTH	408	413
35	HENRY	35-P-AAU	LIBERTY TWP SOUTH	582	610

OFFICIAL RESULTS
GENERAL ELECTION - NOVEMBER 4, 2008
(Precincts with more ballots than voters)

COUNTY NUMBER	COUNTY NAME	STATE PRC CODE	PRECINCT NAME	REGISTERED VOTERS TOTAL	BALLOTS CAST TOTAL
35	HENRY	35-P-AAW	MARION TWP	572	716
35	HENRY	35-P-AAZ	MONROE TWP SOUTH	415	475
35	HENRY	35-P-ABA	NAPOLEON TWP EAST	444	470
35	HENRY	35-P-ABB	NAPOLEON TWP WEST	665	721
35	HENRY	35-P-AAF	NAPOLEON WARD 6	477	595
35	HENRY	35-P-AAH	NAPOLEON WARD 8	610	654
35	HENRY	35-P-AAI	NAPOLEON WARD 9	823	906
35	HENRY	35-P-ABC	PLEASANT TWP	713	826
35	HENRY	35-P-ABD	RICHFIELD TWP	503	530
35	HENRY	35-P-ABE	RIDGEVILLE TWP	869	977
35	HENRY	35-P-ABG	WASHINGTON TWP SOUTH	727	802
37	HOCKING	3718-AAR	PRECINCT GOOD HOPE 1	525	550
37	HOCKING	3719-AAS	PRECINCT GOOD HOPE 2	444	453
37	HOCKING	3724-ABG	PRECINCT HIDE A WAY HILLS	424	471
37	HOCKING	3722-AAV	PRECINCT LAUREL 1	552	594
37	HOCKING	3708-AAI	PRECINCT LOGAN 3C	586	625
47	LORAIN	47AJP	PRECINCT GRAFTON TWP #1	1071	8772
48	LUCAS	48-P-ATB	SPRINGFIELD 21	1254	1311
48	LUCAS	48-P-ABU	SYLVANIA CITY 12	404	442
48	LUCAS	48-P-AQU	TOLEDO 230	587	853
48	LUCAS	48-P-AVA	WATERVILLE 9	991	8383
61	NOBLE	61026-AAV	SHARON	255	275
67	PORTAGE	67033-AAB	AURORA 1-B	700	707
67	PORTAGE	67035-AAD	AURORA 2-B	810	815
67	PORTAGE	67036-AAE	AURORA 3-A	646	674
67	PORTAGE	67039-AAG	AURORA 4-A	942	996
67	PORTAGE	67040-AAH	AURORA 4-B	1142	1173
67	PORTAGE	67041-AAJ	AURORA 5-A	693	795
67	PORTAGE	67042-AAK	AURORA 5-B	551	677

OFFICIAL RESULTS
GENERAL ELECTION - NOVEMBER 4, 2008
(Precincts with more ballots than voters)

COUNTY NUMBER	COUNTY NAME	STATE PRC CODE	PRECINCT NAME	REGISTERED VOTERS TOTAL	BALLOTS CAST TOTAL
67	PORTAGE	67044-AAM	AURORA 6-A	905	942
67	PORTAGE	67045-AAN	AURORA 6-B	841	882
67	PORTAGE	67066-ACX	BRIMFIELD E	1001	1025
67	PORTAGE	67075-ADM	FRANKLIN A	695	763
67	PORTAGE	67076-ADN	FRANKLIN B	940	1035
67	PORTAGE	67085-AEB	HIRAM TOWNSHIP B	900	919
67	PORTAGE	67088-AEE	MANTUA TWP B	899	945
67	PORTAGE	67054-ACL	STREETSBORO 3-B	824	825
67	PORTAGE	67056-ACN	STREETSBORO 4-A	598	688
67	PORTAGE	67057-ACO	STREETSBORO 4-B	802	813
67	PORTAGE	67127-AGE	SUGAR BUSH KNOLLS	177	182
70	RICHLAND	70-P-ADX	SPRINGFIELD TOWNSHIP C	965	7004
73	SCIOTO	73-ACN	JEFFERSON TWP C	515	4015
76	STARK	76-P-AAO	ALLIANCE 4-B	611	616
76	STARK	76-P-AFL	BETHLEHEM TWP 1	299	369
76	STARK	76-P-ACY	CANTON CITY 8-F	918	1006
76	STARK	76-P-ADB	CANTON CITY 8-I	1095	1098
76	STARK	76-P-ADD	CANTON CITY 8-K	640	732
76	STARK	76-P-AGO	JACKSON TWP 17	539	565
76	STARK	76-P-AGP	JACKSON TWP 18	655	664
76	STARK	76-P-AGR	JACKSON TWP 2	694	704
76	STARK	76-P-AGW	JACKSON TWP 24	1181	1208
76	STARK	76-P-AGY	JACKSON TWP 26	1350	1440
76	STARK	76-P-AHD	JACKSON TWP 30	1041	1084
76	STARK	76-P-AHG	JACKSON TWP 33	746	781
76	STARK	76-P-AHJ	JACKSON TWP 36	807	837
76	STARK	76-P-AHK	JACKSON TWP 37	1362	1366
76	STARK	76-P-AOO	JACKSON TWP 38	989	1051
76	STARK	76-P-AHM	JACKSON TWP 5	971	1065

OFFICIAL RESULTS
GENERAL ELECTION - NOVEMBER 4, 2008
(Precincts with more ballots than voters)

COUNTY NUMBER	COUNTY NAME	STATE PRC CODE	PRECINCT NAME	REGISTERED VOTERS TOTAL	BALLOTS CAST TOTAL
76	STARK	76-P-AHO	JACKSON TWP 7	578	630
76	STARK	76-P-AHW	LAKE TWP 13	707	736
76	STARK	76-P-AIE	LAKE TWP 20	1184	1211
76	STARK	76-P-AOV	LAKE TWP 22	750	812
76	STARK	76-P-AIG	LAKE TWP 4	1309	1392
76	STARK	76-P-AIK	LAKE TWP 8	762	818
76	STARK	76-P-AOU	LAKE TWP C	732	744
76	STARK	76-P-ADP	LOUISVILLE D	877	919
76	STARK	76-P-AJJ	MARLBORO TWP 1	839	894
76	STARK	76-P-AOQ	MASSILLON 4-D	979	993
76	STARK	76-P-AGF	MEYERS LAKE A	519	574
76	STARK	76-P-AEZ	NORTH CANTON 2-C	823	863
76	STARK	76-P-AFF	NORTH CANTON 3-D	1160	1238
76	STARK	76-P-AFH	NORTH CANTON 4-B	562	585
76	STARK	76-P-AFI	NORTH CANTON 4-C	908	1173
76	STARK	76-P-ALS	PERRY TWP 9	482	502
76	STARK	76-P-AMB	PLAIN TWP 10	615	617
76	STARK	76-P-AMF	PLAIN TWP 14	727	741
76	STARK	76-P-AMO	PLAIN TWP 22	660	676
76	STARK	76-P-AMS	PLAIN TWP 26	522	528
76	STARK	76-P-ANC	PLAIN TWP 35	579	585
76	STARK	76-P-ANF	PLAIN TWP 4	756	765
76	STARK	76-P-ANJ	PLAIN TWP 8	574	625
76	STARK	76-P-ANK	PLAIN TWP 9	1266	1345
76	STARK	76-P-AOA	TUSCARAWAS TWP 4	614	655
77	SUMMIT	77AHU	PRECINCT AKRON 9-L	759	5748
77	SUMMIT	77ASZ	PRECINCT NEW FRANKLIN 2-B	683	5246
77	SUMMIT	77ATA	PRECINCT NEW FRANKLIN 2-C	650	5140
77	SUMMIT	77AUG	PRECINCT NFLD CTR TWP E	675	5498

Conclusions

Precincts that reported extraordinary turnout in Nov 2020 require further evaluation. Turnout in previous Presidential elections should be evaluated to determine whether historical turnout in those precincts is comparable to Nov 2020. If not, then a detailed forensic examination of the cast ballots should be conducted to verify the results. **November 2020 ballots and election materials in these precincts should be sequestered** prior to expiration of the 22-month federal holding period on September 2, 2022.

Addresses with an unusually high numbers of registrants should be contacted, and the occupants interviewed to confirm that the persons registered at those addresses are actually residents, and that other voter information and the voting history is correct. In other states, when private detectives interviewed residents at addresses with an atypical number of registrants major discrepancies with voter names and voting record were discovered.

References

Ohio Election Official Manual, Feb 2021,

[https://www.sos.state.oh.us/globalassets/elections/directives/2021/eom/eom_fullversion_2021-](https://www.sos.state.oh.us/globalassets/elections/directives/2021/eom/eom_fullversion_2021-02.pdf?__cf_chl_jschl_tk__=o9vthr08wyQheVqd7gEH2K7sU11zU7mOjgsQWo1C_yc-1640275915-0-gaNycGzNCmU)

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2021 General Voter Records Maintenance Program, SOS Directive dir2021-19,

<https://www.sos.state.oh.us/globalassets/elections/directives/2021/dir2021-19.pdf>

Statements by the Ohio Secretary of State

[LaRose Issues Statement On Legislation That Will Bring Accountability To Election System Vendors - Ohio Secretary of State \(ohiosos.gov\) – 1/26/21](#)

[LaRose Maintains Accurate Voter Lists for Ohio While Improving Process Long-Required Under State and Federal Law - Ohio Secretary of State \(ohiosos.gov\) – 1/19/21](#)

[Secretary LaRose Certifies 2020 Presidential General Election Results - Ohio Secretary of State \(ohiosos.gov\) 11/27/20](#)

[Registration Readiness - Ohio Secretary of State \(ohiosos.gov\)](#)