

Selected Vote and Voter Anomalies in the Top 30 Counties of Pennsylvania from the November 3, 2020 Election

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This is a review of the County Voter Registration Databases, and Certified Vote data from the PA Government website votespa.com. You can confirm these results easily yourself, and I provide helpful info for you to do so.

Author: Mr. Cobb – Cobbj@6382@gmail.com

25 years of data analysis experience and a citizen of PA.

Anomalous Results 1

More 'Certified' Votes than Voters

It is normal to expect that some Voters will not vote for any Presidential candidate. So it is normal to expect a County to Certify fewer votes for all Presidential candidates combined than the number of people that voted.

It is impossible for there to be more Presidential votes certified by a County than there are people that voted.

- Of the largest 13 counties in PA, just **6 counties** have 12,686 more Certified Votes for all 3 Presidential candidates than the number of people that voted in those counties. All are historically Democrat counties which Biden won.
- I only made time to review the top 30 Counties in Pennsylvania (by population), and the data shows **15,268 more certified votes for President than the number of people that voted**. All except one county with this anomaly are counties that Biden won.
- Two Counties that are “proper” are both amazingly close to balance as the average for counties not showing this anomaly (and with lower populations) is approximately 600 fewer Presidential votes than Voters. Bucks (13 votes) and Lancaster (46 votes), are both Counties that are historically Democrat and won by Biden. This enfolds all top 6 Counties in Pennsylvania, all historically Democrat.
- Luzerne County with 1/4th the population than either Philadelphia or Allegheny Counties has significantly role in excess votes – 4,092.

Anomalous Results 2

Blank Voting Methods

All votes are supposed to be recorded with their voting method:

In-Person (AP), Provisional (P), Absentee (AB), Mail-in (MB)

It is odd that it would be unknown how all recorded votes were placed.

Where did these votes come from?

- Of the 30 Counties evaluated, data shows there are **22,770 votes for which there is no recorded voting method** (Vs. Mail-in, Absentee, Polling Station or Proxy). The field is blank/null.
- Interestingly, relatively small (1/5th population of the Phila) Washington County has more blank Voting Methods than all other counties.

Anomalous Results 3

Active/Inactive Voters

Voter Registrations are coded as Active or Inactive. Inactive Voters are defined as those who have not voted in 5 years in any election, though often Counties don't manage this closely.

Expectations are that Inactive voters that do vote would be relatively consistent across counties.

- Two mid-size Counties had 20x the normal number of Inactive voters that voted in the Nov 3, 2020 elections vs the average of all other counties.
- Westmoreland (7,748) and Dauphin County (9,292) together had 17,040 inactive voters vote. Both are historically Democrat Counties that Biden won.
- It is possible these two counties were the only ones in the State that had not updated this field in the voter rolls in the SURE database by the date I downloaded the files. A comparison to Nov 3. Voter Registration Roles would confirm this information. If I can acquire November 3, 2020 voter rolls I will re-evaluate.

Anomalous Results 4

Voter Ages

- There are **364 Voters with Birthdates prior to 1910** – over 110 years old that voted on Nov. 3, 2020
- There are **less than 5 of these Supercentenarians in the US.**
- Allegheny County has far and away the most with 159 – 6X Philadelphia.
- Are these people truly living voters?
- Election Supervisors have pointed to old voter rolls imported into the SURE system for false birthdates. But, the import was done 18 years ago, and they're still uncorrected?

- 1155 Voters registered & voted in 2020 for the first time and are over 90 years old. This likely indicates **Nursing Home Ballot Harvesting**, which is generally illegal in Pennsylvania.

- In Allegheny County, 3 Voters were born in 2020.
- In Philadelphia, 2 voters have no DOB.

Anomalous Results 5

Duplicate and Cross County Votes

Without visiting individuals homes and meeting the individual, it is difficult to determine duplicate voters, so only those with a extremely high confidence are claimed.

The process is to match records containing First Name, Last Name and DOB, *then* visually matching Middle Name or Initial (but not blanks), or matching address or matching phone number. This process misses many, but gives high confidence.

- There are **106 duplicate votes in the 30 counties**.
- The highest number of duplicates is in Westmoreland County (35), more than Philadelphia (32) having 4 times the number of registered voters.
- 120 more Votes are likely duplicated but could not be proven to satisfaction.
- **23 more people voted in more than 1 county**. I checked a few counties only, due to the difficulty of the analysis. Blank in the data page does not mean zero.
- Likely another 8 voted in Philadelphia County and surrounding.
- These are all felonies.

Anomalous Results 6

Erroneous Name Registrations

By law, Individuals should be registered with a First Name, Last Name and Middle initial or Middle Name.

Without accurate Name Registration, how can any voter be verified as eligible? How can we be assured they are not registered under another or full name?

- 4,698 people voted and have only a First Initial and/or Middle Initial with a last name.
- 2,528 are in Bucks County alone
- 3 voters have the Last Name OVAXX ACP. Part of an Abuse Protected List. They should of course be protected, but not able to vote using a false name.
- 1 vote in Lackawanna with no name at all.
- 1 Voter in Westmoreland voted 3 times – Weaver.
- 2 people – a couple at the same address with last name of just O, in Bucks County.
- 1 Linda Z voted in Delaware County
- 3 voters in Alleghany County have a last name of just a single letter.
- 1 voter in Washington County has only a last name listed– Marker.

Data Overview 1

GENERAL					VOTE TOTALS			VOTING METHOD							
County	Vote field	2018 Population	Total Registrations	% Tot Reg v Pop	Certified Vote Total	Rolls 11/03 Voter Total	Less Voters than Certified	Blank Method	% Blank of Total	MB/AB	%MB/AB of Total	Provisional	% Prov of Total	AP	% AP of Total
Philadelphia	3	1,526,000	1,055,046	0.691	741,377	738,171	3,206	1,692	0.002	368,678	0.50	14,744	0.020	353,057	0.48
Alleghany	10	1,223,000	927,991	0.759	719,733	717,854	1,879	1,476	0.002	347,556	0.48	14,456	0.020	354,366	0.49
Montgomery	7	800,000	593,829	0.742	510,157	510,138	19	2,892	0.006	240,862	0.47	3,800	0.007	262,584	0.51
Bucks	6	625,000	488,092	0.781	396,234	396,247		1,624	0.004	168,211	0.42	6,051	0.015	225,761	0.57
Delaware	18	559,000	407,196	0.728	327,931	325,426	2,505	1,312	0.0040	127,569	0.39	6,738	0.021	189,807	0.58
Lancaster	9	519,000	342,950	0.661	280,239	280,285		954	0.0034	89,440	0.32	4,957	0.018	184,934	0.66
Chester	16	499,000	368,074	0.738	314,502	313,517	985	1,515	0.0048	149,074	0.48	3,470	0.011	159,459	0.51
York	10	434,000	311,504	0.718	238,471	238,610		908	0.0038	75,613	0.317	5,193	0.0218	156,896	0.658
Berks	15	411,000	263,255	0.641	205,540	207,128		920	0.0044	65,948	0.318	4,205	0.0203	136,035	0.657
Northampton	39	398,000	218,267	0.548	170,942	171,455		946	0.0055	73,251	0.427	1,840	0.0107	95,418	0.557
Westmoreland	2	365,000	245,800	0.673	204,697	205,118		665	0.0032	58,864	0.287	2,722	0.0133	142,867	0.697
Lehigh	18	349,000	239,590	0.687	184,713	185,032		870	0.0047	75,966	0.411	2,883	0.0156	105,313	0.569
Luzerne	5	320,000	220,633	0.689	153,321	149,229	4,092	315	0.0021	56,640	0.380	1,798	0.0120	90,476	0.606
Erie	4	280,000	177,672	0.635	137,083	137,740		134	0.0010	49,186	0.357	1,950	0.0142	86,470	0.628
Dauphin	6	268,000	189,713	0.708	147,368	148,327		692	0.0047	54,787	0.369	2,777	0.0187	90,071	0.607
Cumberland	6	235,000	181,653	0.773	141,159	142,354		737	0.0052	52,440	0.368	1,391	0.0098	87,786	0.617
Lackawanna	9	214,000	114,117	0.533	115,410	115,994		243	0.0021	41,780	0.360	1,776	0.0153	72,195	0.622
Washington	5	207,000	144,990	0.700	118,478	118,270	208	1,807	0.0153	36,716	0.310	1,286	0.0109	78,461	0.663
Butler	17	183,000	143,048	0.782	113,305	113,731		503	0.0044	32,925	0.289	1,552	0.0136	78,751	0.692
Beaver	16	170,000	112,905	0.664	94,122	94,898		302	0.0032	29,847	0.315	1,514	0.0160	63,235	0.666
Monroe	17	170,000	113,262	0.666	83,829	82,978	851	447	0.0054	32,995	0.398	1,432	0.0173	48,104	0.580
Centre	14	154,000	105,166	0.683	77,493	77,049	444	271	0.0035	32,244	0.418	629	0.0082	43,905	0.570
Franklin	6	150,000	98,004	0.653	80,783	80,828		205	0.0025	20,902	0.259	775	0.0096	58,946	0.729
Schuylkill	8	148,000	90,301	0.610	70,603	70,818		309	0.0044	16,141	0.228	972	0.0137	53,396	0.754
Lebanon	3	133,000	90,177	0.678	71,652	71,731		380	0.0053	22,219	0.310	1,360	0.0190	47,772	0.666
Blair	26	127,000	80,276	0.632	63,595	63,602		146	0.0023	17,056	0.268	775	0.0122	45,625	0.717
Mercer	3	117,000	71,901	0.615	57,954	58,144		153	0.0026	14,966	0.257	1,306	0.0225	41,719	0.718
Lycoming	7	116,000	71,393	0.615	59,254	59,133	121	123	0.0021	12,778	0.216	828	0.0140	45,404	0.768
Adams	16	101,000	72,381	0.717	56,540	56,611		138	0.0024	18,883	0.334	601	0.0106	36,989	0.653
Northumberland	4	94,528	57,654	0.610	42,283	41,325	958	91	0.0022	8,562	0.207	562	0.0136	32,110	0.777
					5,978,768	5,971,743	15,268	22,770	0.0038	2,392,099	0.4006	94,343	0.0158	3,467,912	0.5807

Data Overview 2

VOTING STATS						2020 REG				NO NAMES			
Active	Inactive	Born 1920 and Prior	Born 1910 and Prior	True Duplicates	Likely Duplicates	Cross-County	Which County	Voters Registered in 2020	Reg 2020 vs Voted Reg.	Reg 2020 <=1930	Initials as both first and middle names	Name Issues	other
738,168	3	193	20	32	63			67,528	0.091	132	105		2 voters with no DOB
716,652	1,202	359	159	14				62,586	0.087	130	455		3 voters born 2020. "ACP" last name in Reg DB . 3 people names end in a single letter. 80 born 1800's
510,056	82	137	12	-	16	9	Phil, Dela, Bucks	34,797	0.068	114	165		
395,933	314	95	3	-	9	2	Phil	28,443	0.072	2	2,528	2	006203778-09, 006298793-09 Steve and Anna O -single letter
325,211	215	69	13	4	-	7	Phil	24,712	0.076	80	91	2	another 8 likely voted in phil. 1 - Linda Z voted
280,189	96	52	0	9	24			24,269	0.087	78	363		
313,443	74	50	1	-	-	4	Phil	23,035	0.073	71	61	1	
238,416	194	0	0	5	2			19,113	0.080	56	57		
206,475	-	1	24	1	1			15,018	0.073	40	43		
171,256	199	23	1	-	-			16,186	0.094	80	28		
238,052	7,748	-	29	35	-	-		13,953	0.068	29	168		1 voted 3 times Weaver. Most dups have a blank vote method and most registered 2020
184,870	162	36	-	1	-			14,328	0.077	45	30		1-1914,1-1915
149,225	4	33	4	-	1			11,223	0.075	27	8		
137,649	91	30	1	2	-			9,619	0.070	19	24		
139,035	9,292	44	25	-	-			10,965	0.074	36	21	2	OVA ACP voters
142,305	49	28	43	-	-			12,532	0.088	39	40	2	
115,979	15	33	3	-	2	1	Luzerne	6,977	0.060	20	6	1	1 vote no names at all. Dob 12/2/1936. ID 012740505-35
118,081	189	23	2	-	2			9,850	0.083	15	28	1	one has no first or middle name - Marker.
113,731	-	20	2	1	-			8,820	0.078	11	53		
94,856	42	1	-	-	-			6,078	0.064	14	22		
82,860	118	10	1	-	-			8,478	0.102	18	10		
76,883	166	13	2	-	-			7,294	0.095	18	12		db err line 97092 - id 110165597-14 dup to 002942298-14 Strickland, samual Johnny J (The original DB error line has both a middle name and a separate field middle initial - very odd - appears to have registered twice - perhaps voted twice)
80,828	-	24	7	-	-			8,004	0.099	16	16		
70,813	5	10	1	-	-			4,737	0.067	6	10		
71,719	12	18	0	2	-			5,852	0.082	22	-		
63,583	19	14	4	-	-			6,094	0.096	0	9		4203 registered in 1800
58,081	63	11	1	-	-			3,952	0.068	10	323		1 reg 1800
59,038	95	16	4	-	-			4,733	0.080	4	9		
56,610	1	7	2	-	-			5,994	0.106	14	3		
41,304	21	7	0	-	-			4,059	0.098	9	10		
5,991,301		1,357	364	106	120	23		-		1155	4698		

Data Sources

Items 3-5 are just educational or reference

1. PA Voter Registration List. County Lists of every Registered Voter: last vote date; Voting Method; Name, address, DOB; etc.
<https://www.pavoterservices.pa.gov/Pages/PurchasePAFULLVoterExport.aspx>
2. PA Presidential Race Vote Total
<https://www.electionreturns.pa.gov/ReportCenter/Reports>
3. Rural vs Urban County Map:
https://www.rural.palegislature.us/demographics_rural_urban_counties.html
4. PA County Population:
https://en.wikipedia.org/wiki/List_of_counties_in_Pennsylvania
5. Annual PA Voter Registration Reports:
<https://www.dos.pa.gov/VotingElections/OtherServicesEvents/VotingElectionStatistics/Pages/Annual-Reports-on-Voter-Registration.aspx>

Data Methodology

How to ...

- Download the Voter Registration files from the State of PA website (#1 in Data Sources). These are .txt files current as of the week of download, so the data is changing as the SURE database is updated. **My data is 20210301** which is the download date of March 1, 2020.
 - Only Adams County has the header/field definition information, so you need to copy that into a separate .txt file and copy that into each additional county .txt files as you go, prior to importing that county into your database application.
 - You can use Microsoft Excel, but my revision would not handle files with over 1.05Million lines, so I used MS Access/2010 as my tool. Only Philadelphia has over that number of registrations, so you could manually split the Philadelphia file if you want to use Excel.
 - I worked with just one county at a time, as I have a low power and old laptop.
 - MS Access/2010 can't sort or compare data in "quotes". You can eliminate "" with a check box when importing. You also select that there is a header field.
 - Importing several counties into a single MS Access db allows comparing multiple Counties for cross county votes.
 - Each County uses a different field for the 11/2020 voter method field. You identify that field by using the "Election Map" text file for each county that gets downloaded with the Registration Database (#1) for each county.
 - You isolate just those Voters that voted in 11/2020 by filtering on the Last Vote Date field.
 - The Certified Vote Total by County is Data Source #2.
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- My Process:
 - Import data after adding legend and removing "s.
 - Record total # in database. Query status, record number of blank, in-active, actives.
 - Record number of inactives that voted 11/3/2020 (should be 0 as my db is March 2021).
 - Record # of Actives over 100yo,
 - Record number of Actives that registered in 2020. Record # of Actives over 100 & under 18yo.
 - Record number of Actual voters in 11/3/2020. Compare to County reported total votes for Pres (should be less as not everyone votes for a President).
 - Create new table with just Actual voters from 11/3/2020
 - Record number of voters over 100 or under 18.
 - Record number of Actual voters on 11/3/2020 that registered in 2020. Noting those over 100 and under 18. Look through names and addresses for anomalies. Record any.
 - Dedup for last, first, DOB. INCLUDE LAST VOTE DATE of 11/2020 - Otherwise false positives. Export to excel, review and highlight reason believe there is a match, such as matching middle mname/initial, address, phone, highly unique name.
 - Combine dedup files to single excel. Name as "countyname dedup" These are voters that voted twice.

Changes in Data

- You may find your data is different than mine because your file date is different.
- The Counties are constantly updating their Voter Registration data.
 1. Removing the dead was a PILF lawsuit that is forcing the State and Counties to do so.
 2. DMV changes and additions.
 3. Etc.
- If someone has the Nov 3 2020 Rolls, please share them with me. I'd like to compare the changes between the data bases to ID who voted that is now missing.
- I called the Election Supervisor for the biggest issues and mostly was ignored with a request to email them the data, but no commit to read or reply. A couple reasons from Election Supervisors for Anomaly #1 – Bad Bar Codes; People moved since 11/2020 (not much in winter 2021 during COVID lockdowns); We'll have our Solicitors contact you (which of course they never did); and my favorite: How did you get transferred to me?