

- 1. Change Log Update: Batch Analysis. As far as I know, there isn't a data source available of how batches of ballots voted. We see the batches in the Edison data feed, and can see their impact on the Dem / Rep %s. But that's for the President. What about down ballot? Let's see!
- 2. Seeing how Dem & Rep candidates performed down ballot compared to the Prez is a powerful insight that can tell us how more about what these batches contain.

 @va_shiva had a presentation about weighted race voting, and while I'm not familiar, the pattern I'm seeing might
- 3. be what his analysis showed in MI. Now these batches are in VA. I've focused on CD-1, CD-10, and CD-11. The other criteria was that the batch of votes had to be >1000 for both Biden and Trump. The big batches are more meaningful in terms of trends.
- 4. The analysis was to determine the difference between the Prez and House Rep candidate for both parties in the batch. Then calculate the percentage of that difference, and see how Biden performed vs Trump. There is a glaring symmetry in performance for these batches of ballots:

			Democratic Candidates			Republican Candidates			President / House Rep Difference		President / House Rep Difference (%)	
EffectiveDate *	CongressionalDistri-T	>1K Batch -T	President *	Senate *	House Representative *	President *	Senate 🔻	House Representative *	Dem 💌	Rep -	Dem 💌	Rep 💌
11/3/2020 8:29 PM	1	1	6524	6453	5885	2197	2272	2797	639	(600)	10.9%	-21.5%
11/3/2020 8:35 PM	1	1	4941	5050	4463	2815	2740	3192	478	(377)	10.7%	-11.8%
11/3/2020 8:36 PM	10	1	7814	7844	7638	3714	3751	3882	176	(168)	2.3%	-4.3%
11/3/2020 9:18 PM	1	1	1786	1808	1569	1661	1660	1878	217	(217)	13.8%	-11.6%
11/3/2020 9:20 PM	1	1	4913	5089	4139	6195	6126	6960	774	(765)	18.7%	-11.0%
11/3/2020 9:31 PM	11	1	7538	7468	7319	2354	2488	2503	219	(149)	3.0%	-6.0%
11/3/2020 9:44 PM	10	1	107311	105885	103446	43562	46099	48181	3865	(4619)	3.7%	-9.6%
11/3/2020 11:06 PM	1	1	4367	4534	3654	5180	5191	6027	713	(847)	19.5%	-14.1%
11/3/2020 11:18 PM	10	1	3115	3149	3060	2549	2583	2658	55	(109)	1.8%	-4.1%
11/3/2020 11:25 PM	1	1	19571	19444	13203	11995	12385	11887	6368	108	48.2%	0.9%
11/3/2020 11:27 PM	1	1	1883	1917	1683	2645		2735	200	(90)	11.9%	-3.3%
11/3/2020 11:29 PM	1	1	18855	18889	16393	23586	23514	25567	2462	(1981)	15.0%	-7.7%
11/4/2020 12:08 AM	1	1	2286	2302	1938	2763	2698	3095	348	(332)	18.0%	-10.7%
11/4/2020 12:16 AM	10	1	59257	57800	56288	20834	23098	24366	2969	(3532)	5.3%	-14.5%
11/4/2020 12:16 AM	11	1	156038	153566	152291	37970	41642	41792	3747	(3822)	2.5%	-9.1%
11/4/2020 12:20 AM	1	1	29847	29437	26112	18304	18354	21605	3735	(3301)	14.3%	-15.3%
11/4/2020 2:04 AM	10	1	4985	5078	4960	2786	2760	2841	25	(55)	0.5%	-1.9%
11/4/2020 3:20 PM	1	1	2466	2537	2101	2263	2175	2689	365	(426)	17.4%	-15.8%
11/4/2020 4:33 PM	1	1	8241	8305	7366	5107	5164	6074	875	(967)	11.9%	-15.9%
11/5/2020 8:05 AM	1	1	1363	1357	1222	1901	1900	2003	141	(102)	11.5%	-5.1%
11/5/2020 4:06 PM	1	1	1695	1684	1512	2282	2281	2416	183	(134)	12.1%	-5.5%
11/5/2020 7:43 PM	1	1	17102	16965	14649	11939	12337	14361	2453	(2422)	16.7%	-16.9%
11/6/2020 12:34 PM	1	1	1561	1618	1324	2619		2861	237	(242)	17.9%	-8.5%
11/6/2020 1:22 PM	1	1	1788	1812	1573	1664	1663	1881	215	(217)	13.7%	-11.5%
11/6/2020 1:34 PM	1	1	4376	4543	3662	5182	5192	6029	714	(847)	19.5%	-14.0%
11/6/2020 2:16 PM	1	1	4993	5177	4212	6267	6199	7046	781	(779)	18.5%	-11.1%
11/6/2020 2:31 PM	1	1	6529	6458	5890	2202	2277	2802	639	(600)	10.8%	-21.4%
11/6/2020 2:37 PM	10	1	3121	3159	3069	2554	2586	2662	52	(108)	1.7%	-4.1%
11/6/2020 3:00 PM	1	1	2054	2095	1838	2735	2636	2839	216	(104)	11.8%	-3.7%
11/6/2020 3:01 PM	1	1	8255	8319	7378	5117	5174	6087	877	(970)	11.9%	-15.9%
11/6/2020 4:26 PM	11	1	7610	7540	7384	2374	2506	2526	226	(152)	3.1%	-6.0%
11/6/2020 4:31 PM	10	1	109335	107800	105228	44292	46907	48982	4107	(4690)	3.9%	-9.6%
11/7/2020 3:15 PM	10	1	8004	8032	7826	3760	3805	3935	178	(175)	2.3%	-4.4%

- 5. Each row is a separate batch. What about these districts would cause this pattern? Voters? Maybe the counting machines were configured differently from other districts? I don't see any other explanation. Ballots for Trump showing up in Biden's column looks like the answer.
- 6. Improper vote counting would explain the Biden only votes we've been wondering about. Vote for Prez but not down ballot. For each Trump vote given to Biden, there would theoretically be a Biden only ballot that existed to create the vote. Not according to these batches because
- 7. The ballot was a trump vote that got switched. There's thousands of votes in these batches with appear to just be moved over to Biden. I wanted to believe otherwise, but at this point, I need proof that the machines were working properly to believe.
- 8. As for the other districts, here's the pattern in Districts 6 and 8. Same shifting as we see in District 1, 10, and 11. Again, note the symmetry in the shifting in the number of votes (not %). Wonder what an audit or manual check would reveal.

			Democratic Candidates			Republican Candidates			President / Hous	e Rep Difference	President / House Rep Difference (%)	
EffectiveDate ~	CongressionalDistri-T	>1K Batch -T	President *	Senate *	House Representative *	President *	Senate *	House Representative *	Dem *	Rep *	Dem 💌	Rep *
11/3/2020 7:57 PM	6	1	5728	5815	5302	3026	2977	3408	426	(382)	8.0%	-11.2%
11/3/2020 9:37 PM	6	1	7788	8223	6887	12800	12523	13792	901	(992)	13.1%	-7.2%
11/3/2020 11:05 PM	6	1	2787	2918	2538	2175	2077	2432	249	(257)	9.8%	-10.6%
11/3/2020 11:20 PM	8	1	89306	87025	86589	13292	16460	16491	2717	(3199)	3.1%	-19.4%
11/3/2020 11:36 PM	6	1	17447	17962	15876	16697	16792	18541	1571	(1844)	9.9%	-9.9%
11/3/2020 11:42 PM	6	1	4711	4834	4289	6075	6039	6490	422	(415)	9.8%	-6.4%
11/4/2020 12:16 AM	8	1	93112	91603	90821	20618	22776	22928	2291	(2310)	2.5%	-10.1%
11/4/2020 12:31 AM	6	1	11500	11618	10434	5428	5383	6324	1066	(896)	10.2%	-14.2%
11/4/2020 12:40 AM	6	1	4168	4476	3494	7146	6722	7572	674	(426)	19.3%	-5.6%
11/4/2020 1:04 AM	6	1	4044	4228	3596	6834	6785	7335	448	(501)	12.5%	-6.89
11/4/2020 2:03 AM	6	1	2149	2219	1952	2895	2828	3029	197	(134)	10.1%	-4.49
11/6/2020 3:22 PM	6	1	5813	5901	5383	3053	3008	3442	430	(389)	8.0%	-11.39
11/6/2020 6:53 PM	8	1	91963	89563	89099	13899	17260	17268	2864	(3369)	3.2%	-19.5%
11/6/2020 6:54 PM	6	1	4729	4851	4305	6083	6048	6500	424	(417)	9.8%	-6.4%
11/7/2020 2:54 PM	6	1	11985	12125	10875	5746	5719	6717	1110	(971)	10.2%	-14.59

9. If anyone wants to dig further, I'm open to suggestions, but this is compelling that something systematic was occurring to skew these numbers in this manner. I'm open to other ways of analyzing this data, but it appears to align with @va_shiva presentation.