Backfill Analysis

Checker instructions:
- Look at graphs for each of the metrics, and confirm that any differences between the lines are small, or well understood
- for each value in the "spot check value" columns, confirm that the value matches the same day's value on the state's page (**see note on column header**)
- If all looks good, copy/paste each of the proposed columns into states daily.

Date	Total Tests (PCR)	Proposed	Spot check value	Total PCR Tests (People)	Proposed	Spot check value	Positive Cases (People, confirmed + probable)	Proposed	Spot check value	Negative (People or Cases)	Proposed	Spot check value
2020-07-20	12236	12236	carried up	11092	11092		37	37	carried up	11055	11055	
2020-07-19	11335	12236	carried up	10697	11092		37	37		10664	11055	
2020-07-18	11335	12236	carried up	10697	11092		37	37		10664	11055	
2020-07-17	11335	12236	carried up	10697	11092		37	37		10664	11055	
2020-07-16	11335	12236	carried up	10697	11092		36	37		10664	11055	
2020-07-15	11335	12236		10697	11092		36	36		10664	11056	
2020-07-14	11335	12209		10697	10697		33	36		10664	10661	
2020-07-13	11335	12102		10697	10697		33	33		10734	10664	
2020-07-12	11335	12015		10697	10697		33	33		10734	10664	
2020-07-11	11335	11996		10697	10697		31	33		10734	10664	
2020-07-10	11335	11759		10697	10697		31	31		10734	10666	
2020-07-09	11335	11706		10697	10697		31	31		10734	10666	
2020-07-08	10765	11545			10697		31	31		10734	10666	
2020-07-07	8217	11518			10697		31	31		8187	10666	
2020-07-06	8217	11335			10697		31	31		8187	10666	
2020-07-05	8217	11257			10145		31	31		8187	10114	
2020-07-04	8217	11245			10145		31	31		8187	10114	
2020-07-03	8217	11069			10145		31	31		8187	10114	
2020-07-02	8217	11069			10145		30	30		8187	10114	
2020-07-01	8217	11069			10145		30	30		8187	10115	
2020-06-30	8217	11024			10145		30	30		8187	10115	
2020-06-29	8217	10915			10145		30	30		8187	10115	
2020-06-28	8217	10901			10145		30	30		8187	10115	
2020-06-27	8217	10891			10145		30	30		8187	10115	
2020-06-26	8217	10765			10145		30	30		8187	10115	
2020-06-25	8217	10747			9717		30	30		8187	9687	
2020-06-24	8217	10673			9717		30	30		8187	9687	
2020-06-23	8217	10645			9717		30	30		8187	9687	
2020-06-22	8169	10568			9717		30	30		8139	9687	
2020-06-21	8169	10505			9717		30	30		8139	9687	
2020-06-20	8169	10485			9717		30	30		8139	9687	
2020-06-19	8169	10412			9717		30	30		8139	9687	
2020-06-18	8169	10368			9717		30	30		8139	9687	
2020-06-17	8169	10320					30	30		8139		
2020-06-16	8169	10237					30	30		8139		
2020-06-15	8169	10154					30	30		8139		
2020-06-14	8169	10091					30	30		8139		
2020-06-13	7936	10083					30	30		7906		
2020-06-12	7762	9782					30	30		7732		
2020-06-11	7581	9575					30	30		7551		
2020-06-10	7523	9322					30	30		7493		
2020-06-09	7523	9226					28	28		7493		
2020-06-08	7241	9060					28	28		7214		
2020-06-07	7241	8993					27	27		7214		
2020-06-06	6695	8833					26	26		6669		
2020-06-05	6695	8593					26	26		6669		
2020-06-04	6695	8366					26	26		6669		
2020-06-03	6557	8168					23	23		6534		
2020-06-02	6557	8005					23	23		6534		
2020-06-01	6334	7720					22	22		6312		
2020-05-31	6173	7673					22	22		6151		
2020-05-30	6008	7506					22	22		5986		
2020-05-29	5684	7292					22	22		5662		
2020-05-28	5423	6953					22	22		5401		
2020-05-27	5200	6619					22	22		5178		
2020-05-26	4940	6371					22	22		4918		
2020-05-25	4757	6075					22	22		4735		
2020-05-24	4757	6067					22	22		4735		
2020-05-23	4318	5866					22	22		4296		
2020-05-22	4318	5554					22	22		4296		
2020-05-21	4089	5358					22	22		4,067		
2020-05-20	3817	5102					21	21		3796		
2020-05-19	3,817	4591					21	21		3796		
2020-05-18	3420	4510					21	21		3399		
2020-05-17		4361					21	21		3318		
2020-05-16	3339	4270					21	21		3318		
2020-05-15	3325	4084					19	19		3306		
2020-05-14	3325	3868					19	19		3306		
2020-05-13	3040	3525					19	19		3021		
2020-05-12	2873	3335					19	19		2854		
2020-05-11	2695	3145					19	19		2676		
2020-05-10	2336	3000					16	16		2321		
2020-05-09	2336	2936					16	16		2321		
2020-05-08	2336	2883					15	15		2321		
2020-05-07	1797	2865					15	15		1783		
2020-05-06	1797	2634					15	15		1783		
2020-05-05		2279					14	14		1783		
2020-05-04		1938					14	14		1321		
2020-05-03		1770					14	14		1321		
2020-05-02		1362					14	14		934		
2020-05-01		1174					14	14		749		
2020-04-30		980					14	14		585		
2020-04-29		753					14	14		210		
2020-04-28		564					14	14		51		
2020-04-27		401					14	14		51		
2020-04-26		310					14	14		51		
2020-04-25		212					14	14		51		
2020-04-24		97					14	14		51		
2020-04-23		89					14	14		51		
2020-04-22		84					14	14		51		
2020-04-21		80					14	14		51		
2020-04-20		70					14	14		51		
2020-04-19		69					14	14		42		
2020-04-18		67					14	14		42		
2020-04-17		65					13	13		42		
2020-04-16		61					13	13		27		
2020-04-15		59					13	13		27		
2020-04-14		59					13	13		27		
2020-04-13		55					11	11		27		
2020-04-12		48					11	11		27		
2020-04-11		48					11	11		27		
2020-04-10		48					11	11		27		
2020-04-09		48					11	11		27		
2020-04-08		47					11	11		27		
2020-04-07		45					8	8		15		
2020-04-06		42					8	8		13		
2020-04-05		34					8	8		13		
2020-04-04		34					8	8		13		
2020-04-03		34					8	8		13		
2020-04-02		33					8	8		13		
2020-04-01		31					6	6				
2020-03-31		29					2	2				

Auto Fetch: ANTIBODY_TOT ANTIBODY_POS ANTIBODY_NEG SPECIMENS SPECIMENS_PC SPECIMENS_NE CONFIRMED TOTAL POSITIVE NEGATIVE PENDING CURR_HOSP HOSP CURR_ICU ICU CURR_VENT VENT RECOVERED DEATH DEATH_CONFIR DEATH_PROBABLE

States Daily: Total Antibody Te | Positive Antibody | Negative Antibod | Total Tests (PCR | Positive Tests (P | Negative Tests (I | Positive Cases (I | Total PCR Tests | Positive | Negative | Pending | Hospitalized – Cu | Hospitalized – Cu | In ICU – Currentl | In ICU – Cumula | On Ventilator – C | On Ventilator – C | Recovered | Deaths | Deaths (confirme | Deaths (probable)

Assume Hidden: Total Antibody Tests (People) | Positive Antibody Tests (People) | Negative Antibody Tests (People) | Total Tests (PCR) | Positive Tests (PCR) | Negative Tests (PCR) | Positive Cases (PCR) | Total PCR Tests (People) | Positive Cases (People, confirmed + probable) | Negative (People or Cases) | Pending | Currently Hospitalized | Cumulative Hospitalized | Currently in ICU | Cumulative in ICU | Currently on Ventilator | Cumulative on Ventilator | Recovered | Deaths (confirmed and probable) | Deaths (confirmed) | Deaths (probable)

Sensitivity 0.01

Columns C-D — Total Tests (PCR), Proposed

Columns F-G — Total PCR Tests (People), Proposed

Columns I-J — Positive Cases (People, confirmed + probable), Proposed

Columns L-M — Negative (People or Cases), Proposed

Comments:
Total tests: There are better numbers now
Total people: it's a number that's updated weekly (or so), and has only 4 values
Positives: we're pretty good on this
Negatives: *uhhhhh* this is annoying when calculating from total tested people, which has only 3 values

Suggestions
"Total People PCR" - carry over weekly values
Negatives: Use total people tested (new value) when it's available, and clear old data

Date	Total Tests (PCR)	Proposed	Spot check value	Total PCR Tests (People)	Proposed	Spot check value	Positive Cases (People, confirmed + probable)	Proposed	Spot check value	Negative (People or Cases)	Proposed	Spot check value
2020-03-30		29					2	2				
2020-03-29		7					2	2				
2020-03-28		5					2	2				
2020-03-27							0					
2020-03-26							0					
2020-03-25							0					
2020-03-24							0					
2020-03-23							0					
2020-03-22							0					
2020-03-21							0					
2020-03-20							0					
2020-03-19							0					
2020-03-18							0					
2020-03-17							0					
2020-03-16							0					

Auto Fetch: ANTIBODY_TOT | ANTIBODY_POS | ANTIBODY_NEG | SPECIMENS | SPECIMENS_PC | SPECIMENS_NE | CONFIRMED | TOTAL | POSITIVE | NEGATIVE | PENDING | CURR_HOSP | HOSP | CURR_ICU | ICU | CURR_VENT | VENT | RECOVERED | DEATH | DEATH_CONFIR | DEATH_PROBABLE

States Daily: Total Antibody Te | Positive Antibody | Negative Antibod | Total Tests (PCR | Positive Tests (P | Negative Tests (I | Positive Cases (I | Total PCR Tests | Positive | Negative | Pending | Hospitalized – Cu | Hospitalized – Cu | In ICU – Currentl | In ICU – Cumula | On Ventilator – C | On Ventilator – C | Recovered | Deaths | Deaths (confirme | Deaths (probable)

Assume Hidden:	Total Antibody Tests (People)	Positive Antibody Tests (People)	Negative Antibody Tests (People)	Total Tests (PCR)	Positive Tests (PCR)	Negative Tests (PCR)	Positive Cases (PCR)	Total PCR Tests (People)	Positive Cases (People, confirmed + probable)	Negative (People or Cases)	Pending	Currently Hospitalized	Cumulative Hospitalized	Currently in ICU	Cumulative in ICU	Currently on Ventilator	Cumulative on Ventilator	Recovered	Deaths (confirmed and probable)	Deaths (confirmed)	Deaths (probable)
Sensitivity	0.01																				