

From: [Brian.Gaas](#)
To: [Shannon.Ryan](#); [Kendra.Black](#)
Subject: RE: Drafting Instructions for CMOH Recommendations for June 18 2021.doc
Date: Tuesday, June 1, 2021 12:59:52 PM
Attachments: [image001.png](#)
[image002.png](#)

Some thoughts:

- Are the ultimate decision-makers going to want to be tied to a fixed number/range, especially if we end up close to but not quite at whatever threshold is used? It's easy enough to manage by saying the metric is part of an overall evaluation (which is a valid point; there should be flexibility in the decision), but there are political considerations of going ahead with opening if we don't meet the criteria laid out.
- A Canada-wide metric might not make sense for us. Our main risk is from importation, and that is driven by a subset of locations within Canada (and the US). For instance, having a fully vaccinated BC and AB is more important to Yukon than having a fully vaccinated ON and QC because we get more travelers from BC and AB. There's nothing that stops us from doing some math to account for this, but a flat (and made up) rate across Canada is probably overkill for what we need.
- Downward trends in case counts are good, but not good enough. That's how/why we keep getting waves: counts go down, but there are still enough susceptible and infected people to get things going again. Right now, most places have case counts equal to the start of their most recent waves, so clearly we have enough infected people circulating to keep the pandemic going. One big change is that we don't have nearly as many susceptible people... but modeling suggests many provinces don't have enough vaccinated people to prevent another wave if restrictions are relaxed. All that to say, trend in cases should not be the only metric to use (and perhaps it doesn't really do us much good to use it at all).
- Same song and dance as before: our risk of importation is relate to both case numbers as well as number of travelers. So, Yukon can handle worse case numbers elsewhere when we don't have tourists, but we need to lower our tolerance when we have higher visitor counts if we are to maintain the same likelihood of importation. Note that it may be acceptable to have a higher likelihood of importation given that it is less likely something bad will come from the importation.

As for numbers...

- We have some modeling results that suggest outbreaks in Yukon would be manageable if we keep the importation rate below 1 imported case every 2 weeks.
- I can take that, run it through the importation model, and see what the overall (Canadian) prevalence needs to be in order to not exceed 1 case every two weeks given X travelers per day (where X is a value I'll play around with in different scenarios), and a distribution of travelers from different locations.

From: Shannon.Ryan <Shannon.Ryan@yukon.ca>
Sent: Tuesday, June 1, 2021 12:14 PM
To: Brian.Gaas <Brian.Gaas@yukon.ca>; Kendra.Black <Kendra.Black@yukon.ca>
Subject: FW: Drafting Instructions for CMOH Recommendations for June 18 2021.doc

Hi Brian,

Can you look at the conversation below and provide some input please?

Thanks,

Shannon



Shannon Ryan CCGC she/her
 Planning lead | COVID19 Response Unit (CRU)
 Health and Social Services
 PO Box 2703 (H-29) | Whitehorse, YT Y1A 2C6
 Cell (NEW) 867-332-1660 | Yukon.ca



I respectfully acknowledge that I work and live within the Traditional Territories of the Kwanlin Dün First Nation and the Ta'an Kwäch'än Council.

From: Kendra.Black <Kendra.Black@yukon.ca>
Sent: Tuesday, June 1, 2021 11:59 AM
To: Shannon.Ryan <Shannon.Ryan@yukon.ca>; Robert.Furlong <Robert.Furlong@yukon.ca>
Cc: Karen.Chan <Karen.Chan@yukon.ca>; Patricia.Living <Patricia.Living@yukon.ca>
Subject: RE: Drafting Instructions for CMOH Recommendations for June 18 2021.doc

Thanks, Shannon. This is so true, and why we weren't worried about the 40 cases last fall (although we were on the tipping point). I think for the self-isolation lifting, we were talking about case counts in the rest of Canada. I know we wanted them to be lower than what they are right now but I'm not sure what the number is, or even if we can quantify it at this point. It was originally added to the chart as something to think about and plan for but our time for either of those things is diminishing. Perhaps we can get Brian to take a look at this issue and see if he can propose a number.

K

Kendra Black

Director and Executive Lead, Covid Response

Health and Social Services

C 867-332-5509

From: Shannon.Ryan <Shannon.Ryan@yukon.ca>
Sent: Tuesday, June 1, 2021 11:43 AM
To: Kendra.Black <Kendra.Black@yukon.ca>; Robert.Furlong <Robert.Furlong@yukon.ca>
Cc: Karen.Chan <Karen.Chan@yukon.ca>; Patricia.Living <Patricia.Living@yukon.ca>
Subject: RE: Drafting Instructions for CMOH Recommendations for June 18 2021.doc

Case count numbers are not a hard number, they never have been, they are context dependent.

Ex: 5 family members travelled together and SI together, all get COVID but all followed all the rules, they do not represent a public health risk, so we are not concerned. On the flip side, if we were to get 2 individuals who get COVID, were not self-isolating, one went to work, one went to a gathering, they went grocery shopping and to a restaurant, this worries us much more.

Shannon Ryan CCGC she/her
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From: Kendra.Black <Kendra.Black@yukon.ca>

Sent: Tuesday, June 1, 2021 11:15 AM

To: Robert.Furlong <Robert.Furlong@yukon.ca>; Shannon.Ryan <Shannon.Ryan@yukon.ca>

Cc: Karen.Chan <Karen.Chan@yukon.ca>; Patricia.Living <Patricia.Living@yukon.ca>

Subject: RE: Drafting Instructions for CMOH Recommendations for June 18 2021.doc

We haven't figured out the case counts number yet – we'll fill it in as soon as we know. And I suspect that neither will be a hard number.

Kendra Black

Director and Executive Lead, Covid Response

Health and Social Services

C 867-332-5509

From: Robert.Furlong <Robert.Furlong@yukon.ca>

Sent: Tuesday, June 1, 2021 11:03 AM

To: Kendra.Black <Kendra.Black@yukon.ca>; Shannon.Ryan <Shannon.Ryan@yukon.ca>

Cc: Karen.Chan <Karen.Chan@yukon.ca>; Patricia.Living <Patricia.Living@yukon.ca>

Subject: RE: Drafting Instructions for CMOH Recommendations for June 18 2021.doc

Hi Kendra,

In this table, it is stated under : Post state of emergency – August 17

If vaccination rates across Canada average 75% for first dose and case counts decrease to XX level

Is this going to be a hard measure? For example, if 1st dose rates are at 73%, would we delay? And what type of measure are we going to use for case counts?

Is it also going to be a hard number?

Thanks,

Rob



Rob Furlong
Health and Social Services | Policy and Program Development
T: 867-332-6751 [NEW] | Yukon.ca



From: Kendra.Black <Kendra.Black@yukon.ca>

Sent: Tuesday, June 1, 2021 10:55 AM

To: Shannon.Ryan <Shannon.Ryan@yukon.ca>; Robert.Furlong <Robert.Furlong@yukon.ca>

Cc: Karen.Chan <Karen.Chan@yukon.ca>; Patricia.Living <Patricia.Living@yukon.ca>

Subject: Drafting Instructions for CMOH Recommendations for June 18 2021.doc

Hi,

At Stephen's request, I created a separate table for drafting instructions for Justice. I'm not clear at this point on whether the CMOH table that goes to Cabinet be different. According to the DM of Justice, this is going to Cabinet on Tuesday, June 8. Again, I am going to suggest that we keep this submission short and simple. I understand that Rob is requesting changes to the J scan. I'm not sure that we have a lot of time to do that and whether it's required but we'll consider that. Our focus has to be going through the guidelines and online communications to make sure it's ready to go for June 18 and we have a ton of work to do in the next 2 weeks.

Thanks.

Kendra

From: [Brian.Gaas](#)
To: [Kendra.Black](#)
Cc: [Shannon.Ryan](#)
Subject: RE: URGENT Daily Importation Risk
Date: Thursday, June 3, 2021 4:32:15 PM
Attachments: [image001.png](#)

In total, or just within the vaccinated population?

From: Kendra.Black <Kendra.Black@yukon.ca>

Sent: Thursday, June 3, 2021 4:21 PM

To: Brian.Gaas <Brian.Gaas@yukon.ca>

Cc: Shannon.Ryan <Shannon.Ryan@yukon.ca>

Subject: URGENT Daily Importation Risk

Importance: High

Hi Brian,

Are you able to tell me what is our daily probability of importation from other Canadian jurisdictions as a percent? I'm really hoping it's below 2%...

See half-way down the page of Table1 on page 13.

https://yukon.ca/sites/yukon.ca/files/eco-path-forward-next-steps-march-11-2021_0.pdf

Thanks.

K



Kendra Black

Director and Executive Lead, Covid Response
Health and Social Services | H-1
C 867-332-5509 | Yukon.ca

Community	Risk of hospitalization (relative to Whitehorse)
Whitehorse	1.000
Dawson City	0.070
Watson Lake	0.055
Carcross / Tagish	0.038
Haines Junction / Champagne	0.038
Teslin / Johnson's Crossing / Swift River	0.021
Mayo / Keno / Stewart Crossing	0.020
Carmacks / Braeburn	0.019
Faro	0.019
Pelly Crossing	0.011
Ross River	0.011
Old Crow	0.007
Destruction Bay / Burwash Landing	0.006
Beaver Creek	0.003

- Risk of having a Covid patient that needs hospitalization is mainly driven by the size of the community
- Based on Canadian age-specific probability of being hospitalized given a Covid infection, weighted by number of individuals in a community within each age group
- Population data do not consider vaccination status, while outcome probabilities are primarily based on unvaccinated individuals
 - To be most useful, this should be changed to only use unvaccinated population counts (which are data I don't have)

Community	Magnitude of potential community outbreak (relative to Whitehorse)
Ross River	3.1
Watson Lake	2
Pelly Crossing	1.8
Carcross / Tagish	1.5
Carmacks / Braeburn	1.4
Faro	1.5
Beaver Creek	1.6
Teslin / Johnson's Crossing / Swift River	1.3
Destruction Bay / Burwash Landing	1.3
Whitehorse	1
Dawson City	1
Mayo / Keno / Stewart Crossing	0.9
Old Crow	0.9
Haines Junction / Champagne	0.8

- Communities with lowest vaccination rates are the most vulnerable to outbreaks, regardless of population size
- Assumes vaccination rates of age groups currently transmitting among communities are proportional to overall vaccination rates among communities (since I don't have the actual data)

From: [Brian.Gaas](#)
To: [Lisa.Oddy](#); [Shannon.Ryan](#)
Subject: RE: Quick question
Date: Monday, June 28, 2021 12:51:59 PM

I'll also add that 41% of current cases are not eligible to go to bars (too young), so such a policy would likely end up being more related to controlling where/how uninfected people congregate rather than controlling where infected people congregate. [Which isn't to say that's a bad thing!]

From: Lisa.Oddy <Lisa.Oddy@yukon.ca>
Sent: Monday, June 28, 2021 11:42 AM
To: Brian.Gaas <Brian.Gaas@yukon.ca>; Shannon.Ryan <Shannon.Ryan@yukon.ca>
Subject: Re: Quick question
Ok thank you Brian.

From: Brian.Gaas
Sent: Monday, June 28, 2021 11:41:01 AM
To: Lisa.Oddy
Subject: RE: Quick question

We've tried, but health measures tend to be implemented at the same time as other measures; we usually can't directly separate out a specific effect.

We have some evidence that the closure policies Yukon implemented previously had almost as much of an effect on limiting people's mobility (generalized as "leaving home") as the modified gathering guidelines, suggesting it is quite a powerful tool. However, that analysis was done considering the number of measures implemented and not any particular measures (that's the next step).

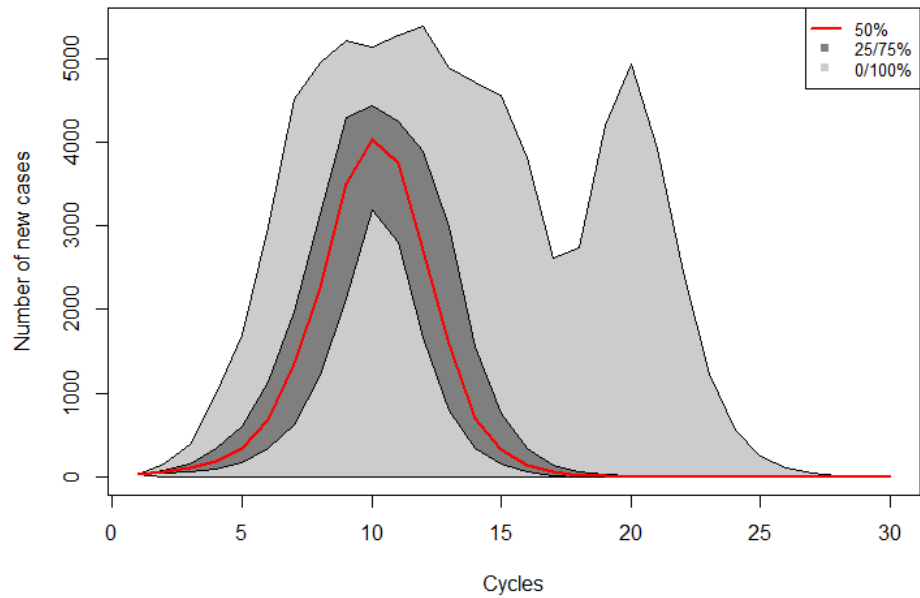
From: Lisa.Oddy <Lisa.Oddy@yukon.ca>
Sent: Monday, June 28, 2021 11:31 AM
To: Brian.Gaas <Brian.Gaas@yukon.ca>
Subject: Quick question

Hi Brian,

I know you're slammed right now, but quick question. Have you ever looked at the effectiveness of PHMs, more specifically reducing the hours of operation of bars/restaurants?

Thanks!

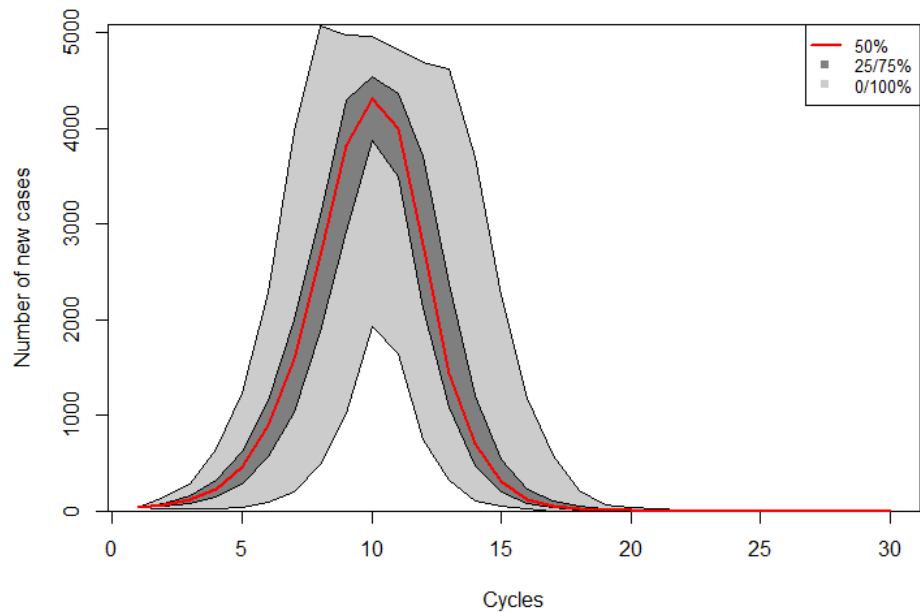
Lisa



- 10% Attack rate; 20 contacts on average $\rightarrow R \sim 2$
- 0% chance contact is vaccinated
- 30 initial spreaders

Baseline results:

- Exponential growth in number of cases for 10 transmission cycles

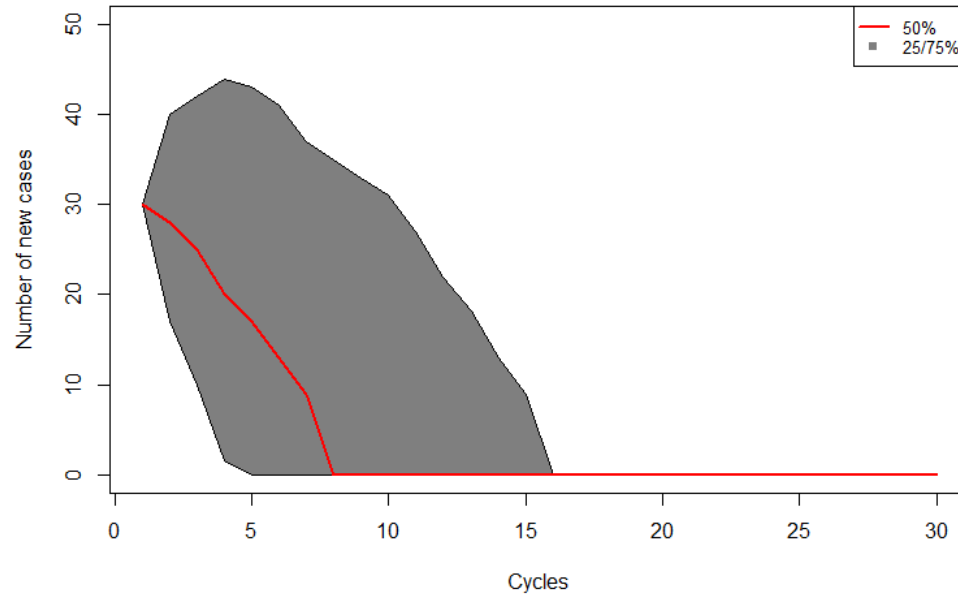


- 20% Attack rate; 10 contacts on average $\rightarrow R \sim 2$
- 0% chance contact is vaccinated
- 30 initial spreaders

Baseline results:

- Exponential growth in number of cases for 10 transmission cycles

60% vaccinated

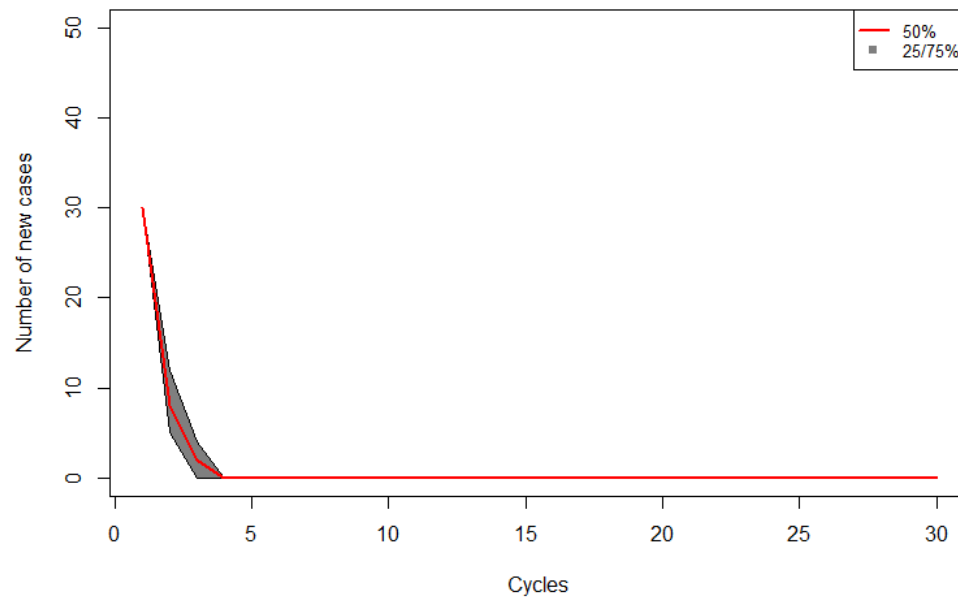


- **10% Attack rate; 20 contacts on average** $\rightarrow R \sim 2$
- 30 initial spreaders (20 known)
- 15% chance vaccine person will still be infected

Results:

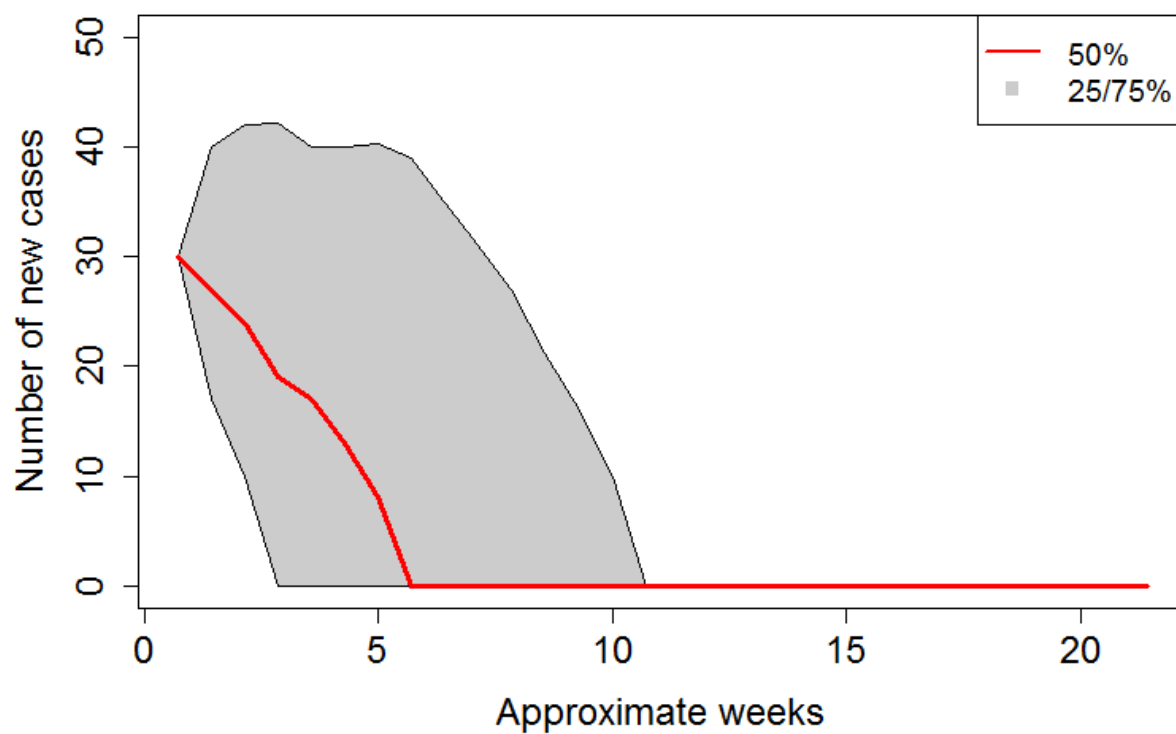
- 60% vaccination: Wave continues for 10-15 transmission cycles (1.5-3 months); slow decline in number in number of new cases per cycle
- 60% vaccination with 6 person gathering limit: Rapid decline in cases; wave ends after 3 cycles

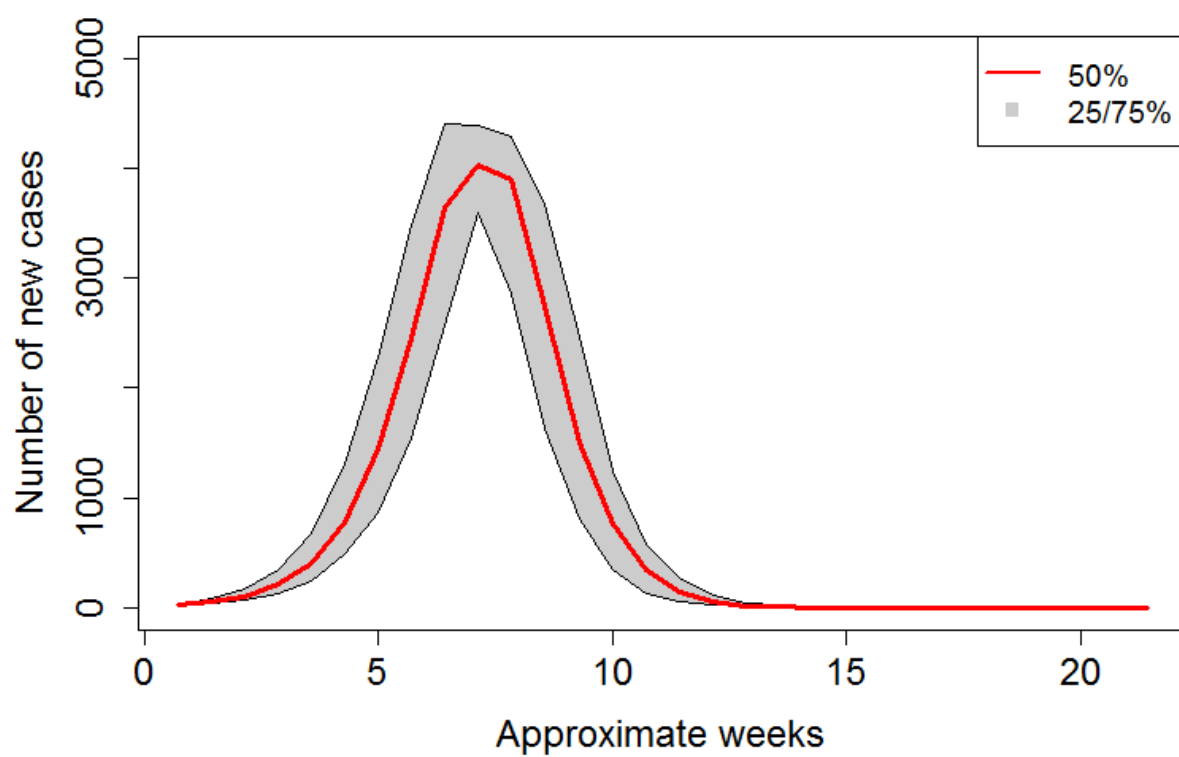
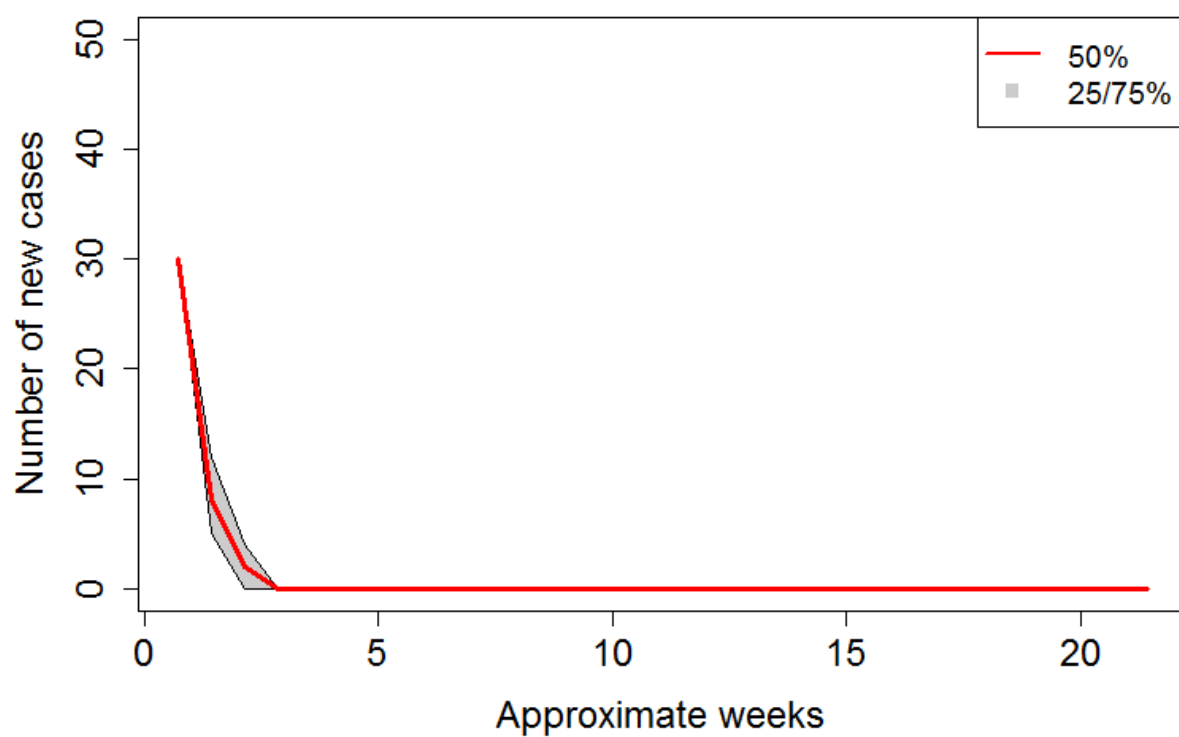
60% vaccinated; 6 person limit

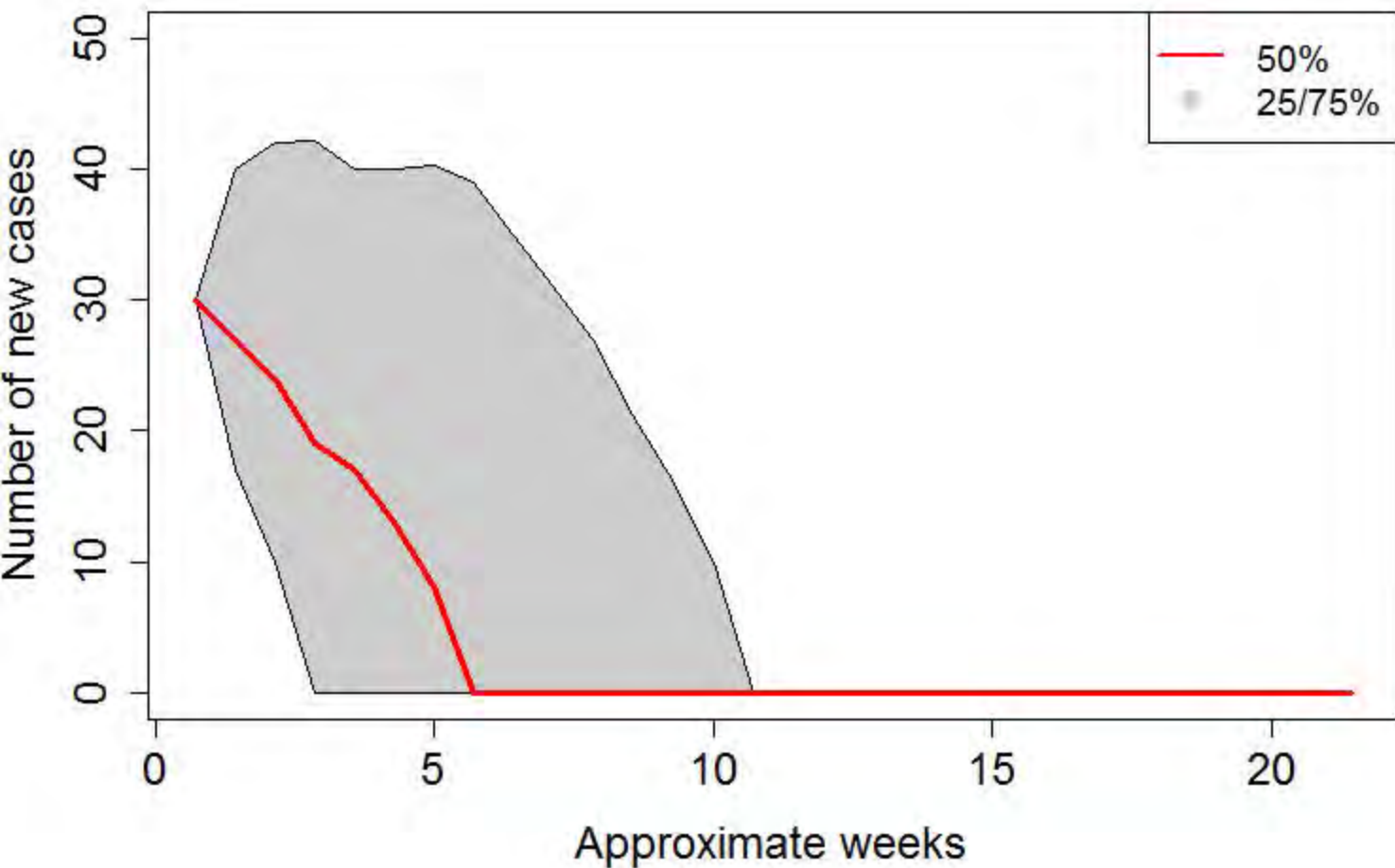


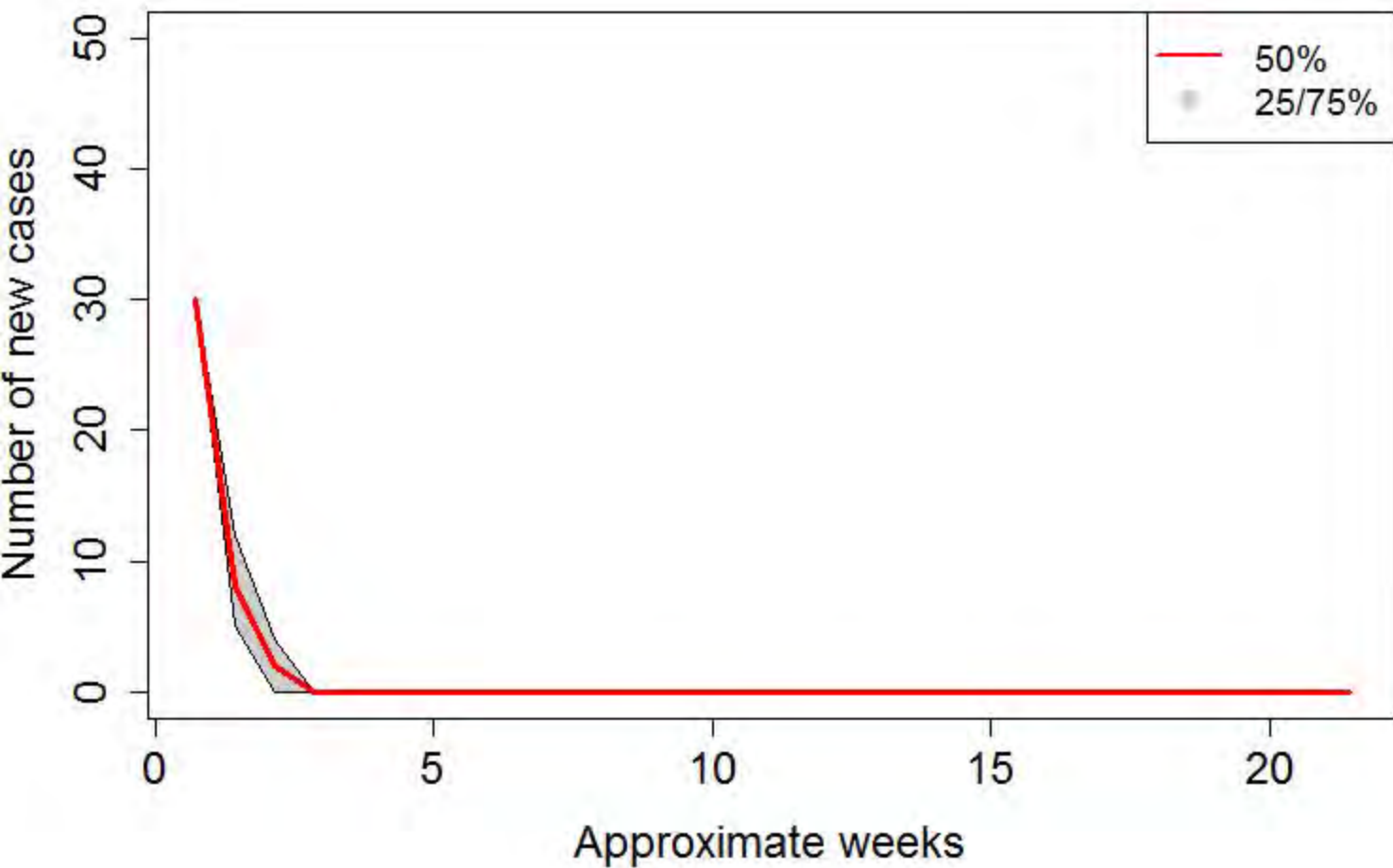
- If nothing is done, the current outbreak could continue for weeks, possibly up to and including the start of the school year
- If nothing is done, case numbers are not expected to drastically decrease in the near-term (order of weeks)
- Case counts will vary daily and it's the longer-term trend that will indicate success or failure of health measures
- The size and duration of the outbreak is extremely sensitive to the number of contacts, and whether those contacts are vaccinated. Small numbers of contacts and highly vaccinated cohorts are extremely effective at limiting the outbreak.

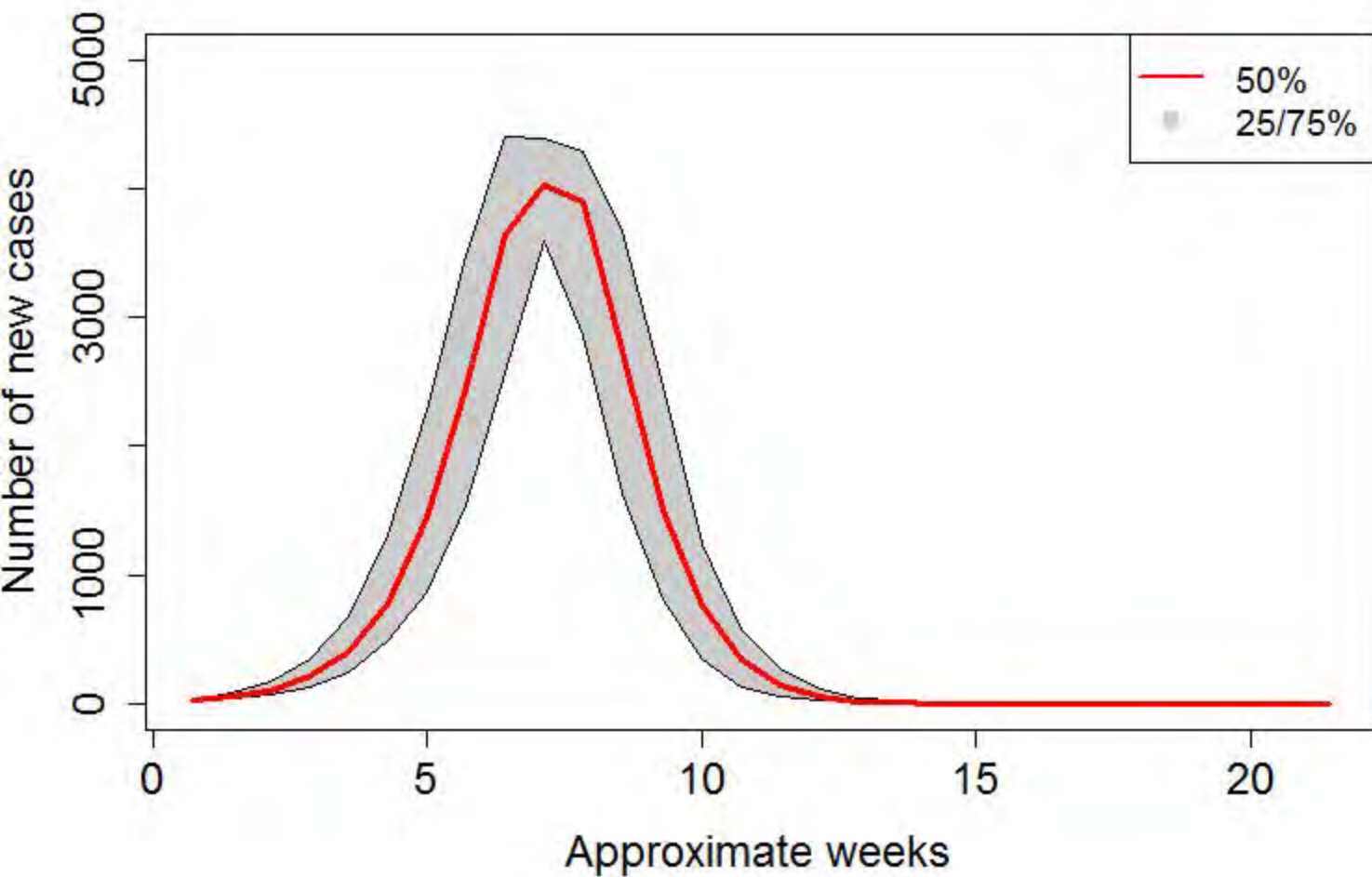
From: [Brian Gaas](#)
To: [Shannon Ryan](#)
Subject: All graphs
Date: Wednesday, June 30, 2021 10:01:39 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)











From: [Brian.Gaas](#)
To: [Lisa.Oddy](#)
Subject: Re: Data for risk table
Date: Monday, July 5, 2021 1:55:41 PM

That is for the previous epi week, yes.

I can get you something for Friday one way or the other; it'll just be a mystery as to exactly what that is until the database people write back (and hopefully fix it).

From: Lisa.Oddy
Sent: July 5, 2021 1:50:44 PM
To: Brian.Gaas
Subject: Re: Data for risk table
Hi Brian,

Thanks, is the testing week still an epi week (June 27- July 3)?

I think Shannon mentioned wanting to update the table weekly, so not a big deal if you don't have the info today.... would Friday be reasonable?

Thanks!

Lisa

From: Brian.Gaas
Sent: Monday, July 5, 2021 1:43:35 PM
To: Lisa.Oddy
Subject: Re: Data for risk table
15.2% percent positive for the last week's worth of testing

Interesting to know that people are interested in importation again... I haven't been able to get anyone to fix my backend database access for weeks, but just sent another request. I have access to Proof, but the export doesn't contain the necessary traveler origin information. I have total numbers of travelers that are up to date, though so if it can't wait, I can give a rough[er than usual] estimate with some assumptions of where travelers come from.

From: Lisa.Oddy
Sent: July 5, 2021 12:49:45 PM
To: Brian.Gaas
Subject: Data for risk table
Hi Brian,

Hope you had a lovely weekend!

Would you mind sharing the latest % positivity from Charity as well as the the latest probability of importation? I'll need to start updating the risk table on a weekly basis.

Thanks!

Lisa

From: [Shannon.Ryan](#)
To: [Brian.Gaas](#)
Subject: traveller numbers
Date: Wednesday, July 7, 2021 12:59:54 PM
Attachments: [image001.png](#)

Hi Brian,

Can you give us an idea of how many people are filling in declarations?

-in the last two weeks? ...each day?

-how many cross at each land crossing, and how many at the airport?

-how many fill in form A, vs form B, vs form C?

Thanks,

Shannon



Shannon Ryan CCGC she/her
Planning lead | COVID19 Response Unit (CRU)
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	British Columbia	Alberta	Saskatchewan	Manitoba	Ontario	Quebec	Northwest Territories	Nunavut	New Brunswick	Newfoundland/Labrador	Nova Scotia	Prince Edward Island	Unknown	USA	Other
12/19/2020	41	18	1	0	5	0	1	0	0	0	0	0	0	8	1
12/26/2020	24	12	3	0	3	1	2	0	0	0	0	0	1	7	0
1/2/2021	42	14	3	1	10	1	0	0	0	0	1	0	1	11	2
1/9/2021	31	22	1	1	8	5	2	0	0	0	0	0	0	16	3
1/16/2021	32	8	2	0	3	0	0	0	0	0	1	0	0	13	2
1/23/2021	38	8	3	1	3	0	0	0	0	0	0	0	1	10	1
1/30/2021	34	10	1	0	3	0	0	0	0	0	0	0	1	6	1
2/6/2021	44	8	2	1	1	0	1	0	0	0	0	0	2	8	3
2/13/2021	63	9	2	0	3	1	1	0	0	0	0	0	0	7	0
2/20/2021	50	15	3	0	4	3	0	0	0	0	1	0	0	7	1
2/27/2021	37	17	0	1	14	0	1	0	1	0	3	0	3	7	1
3/6/2021	60.5	13	1.5	0.5	1	1	1	0	0	0	1	0	1.5	16	1
3/13/2021	48	14	3	1	4	1	3	0	0	0	0	0	1	16	3
3/20/2021	49	14	2	1	6	1	1	0	0	0	0	0	1	20	2
3/27/2021	79.5	18	3.5	1	7	0	0.5	0	0	0	0	0	1.5	18.5	1
4/3/2021	25.5	64.5	1.5	1	2	0	1	0	0	14	1	0	3.5	1	15
4/10/2021	14	9	1	2	0	0	1	0	0	0	0	0	1	12	0
4/17/2021	78	25	5	2	6	3	3	1	0	2	1	0	1	46	3
4/24/2021	69	24	3	1	6	3	0	0	0	0	0	0	2	56	2
5/1/2021	64	21	5	3	7	1	5	0	0	0	1	0	2	74	2
5/8/2021	87	37	5	1	9	2	0	0	0	0	1	0	3	86	3
5/15/2021	66	27	8	0	4	1	1	0	0	0	1	0	2	62	4
5/22/2021	73	21	5	2	5	2	1	0	0	0	0	0	3	79	5
5/29/2021	43	23	5	3	0	2	0	0	0	0	1	0	2	58	2
6/5/2021	181	29	5	2	5.5	2.5	1	0	0.5	0.5	1	0	9.5	12	3
6/12/2021	139.5	46	9.5	1.5	7.5	3	1	0	0.5	0	1	0	38.5	19	3
6/19/2021	241	24	7	2	10	2.5	1	0	0	0.5	0	0	13.5	19	2
6/26/2021	158.5	53	6	1	18	2	3.5	0	0.5	0	0.5	0	38	13.5	4
7/3/2021	272.5	30.5	6.5	3	21.5	3	4.5	0	0	0	1	0	22.5	7.5	2
7/10/2021	268	72.5	12.5	2	27.5	6.5	5	0	0	0	0.5	0	31	11.5	5

	19-Dec	26-Dec	2-Jan	9-Jan	16-Jan	23-Jan	30-Jan	6-Feb	13-Feb	20-Feb	27-Feb	6-Mar	13-Mar	20-Mar	27-Mar	3-Apr	10-Apr	17-Apr	24-Apr	1-May	8-May	15-May	22-May	29-May	5-Jun	12-Jun	19-Jun	26-Jun	3-Jul	10-Jul
CanadaQuebecMontréal	2.42713293	2.75984141	2.4322879	1.984015	1.645917	1.411868	1.2587979	1.078345	0.960788	0.88192893	0.81862054	0.79554223	0.77468189	0.80596466	0.82804134	0.83175363	0.7765683	0.708876	0.6394974	0.555647	0.476683	0.3705	0.273114	0.193801	0.139891	0.114353	0.102063	0.100918	0.110835	0.116736
CanadaNunavutNunavut	0.04439657	0.02080332	0.042488	0.20903	0.2080747	0.1928325	0.3007245	0.332845	0.12988403	0.2596431	0.20399015	0.18279943	0.06972093	0.08270394	0.1258404	0.0627842	0.0268435	0.0720469	0.045617	0.0243992	0.012584	0.075216	0.067214	0.025682	0.009442	0.003341	0.001392	0.000535	0.000196	
CanadaQuebecAbitibi-TAmiscamigue	0.39687709	0.53708956	0.310462	0.163108	0.1124083	0.1210461	0.1633591	0.162656	0.1423461	0.113396	0.10255558	0.13191999	0.1892955	0.1930841	0.14641704	0.09623833	0.0507767	0.0267183	0.0190318	0.01369	0.011803	0.012319	0.044264	0.029836	0.016957	0.012176	0.009776	0.008542	0.003171	0.001135
CanadaOntarioAlgoma	0.4873234	0.53853496	0.430916	0.342388	0.2732528	0.2053351	0.1528088	0.117825	0.105751	0.12830662	0.1687957	0.20353554	0.26083488	0.35523336	0.43843914	0.3973971	0.3947226	0.3394006	0.2968591	0.239189	0.173758	0.108995	0.066728	0.045752	0.033111	0.016655	0.007873	0.017191	0.025971	0.014183
CanadaQuebecBas-Saint-Laurent	0.7201291	0.50857609	0.280228	0.165459	0.113878	0.1026647	0.1086249	0.12347	0.1470809	0.19412294	0.32721116	0.6882157	1.4469275	1.7463087	1.55657796	1.59398806	1.7836669	2.3664002	2.3694126	1.685396	0.828631	0.372055	0.173235	0.083317	0.040197	0.025801	0.019458	0.019711	0.160164	0.006544
CanadaOntarioBrant	1.95692109	1.66869181	1.167335	0.775626	0.5459585	0.4374659	0.4300195	0.487799	0.5797717	0.69679206	0.8674652	1.0489776	2.59491962	2.11983862	2.85687004	2.94941992	2.65183	2.2101583	1.9173774	1.561965	1.255658	0.932258	0.626858	0.384706	0.23159	0.1444203	0.092441	0.06215	0.036646	0.019345
CanadaQuebecCÎle-Nord	0.33519108	0.23013621	0.159284	0.105688	0.072393	0.0539616	0.0478748	0.041531	0.0385749	0.04229584	0.05455787	0.0825139	0.1562623	0.30632207	0.59975823	0.87055837	0.8960855	0.6061029	0.3482105	0.185527	0.099353	0.054195	0.024321	0.022069	0.024671	0.024109	0.024227	0.026949	0.038076	0.018108
CanadaAlbertaCalgary	2.03529752	1.90403227	1.598134	1.0718	0.7872233	0.563836	0.418802	0.361948	0.3421302	0.35910523	0.47019122	1.02799414	1.53657145	2.16375145	2.772622	2.6819416	2.95638	2.6861292	3.382551	2.72622	1.975503	1.075661	0.620376	0.3531	0.271014	0.172779	0.077195	0.04975	0.030961	0.019882
CanadaOntarioOttawa	0.56725049	0.8659305	0.775111	0.564018	0.3873654	0.292108	0.2706716	0.288582	0.3124243	0.33562866	0.3696441	0.46306719	0.65786272	1.01789449	1.47932277	1.74660682	1.3752184	1.002261	0.7479793	0.600675	0.469855	0.339717	0.233972	0.150961	0.093686	0.054463	0.030267	0.016981	0.00956	0.004756
CanadaOntarioToronto	2.96783649	3.30036894	2.754291	2.357101	2.0338953	1.6099576	1.2341042	1.023425	0.9684169	1.00300306	1.58130839	1.8756167	2.47624977	2.7402277	3.6784321	3.814564	3.4384905	2.8161599	2.909802	1.451661	0.911594	0.556257	0.341729	0.221076	0.147109	0.102719	0.069129	0.050732	0.034126	
CanadaAlbertaCentral	4.78769356	3.41431191	2.118387	1.460297	1.143112	1.031906	0.9973302	0.930669	0.9006895	0.87763213	0.99654488	1.27749561	1.79252951	2.61340801	3.54497771	4.54443286	5.4191883	5.6783271	4.8855819	3.800272	2.02731	1.241346	0.722375	0.388775	0.207708	0.11578	0.062363	0.034316	0.017196	0.008299
CanadaAlbertaEdmonton	4.28311083	3.00552005	1.944605	1.257547	0.81663	0.5766903	0.4377535	0.393189	0.3948516	0.444636	0.58130839	0.83770522	1.87379231	2.55573284	3.87789231	3.35572604	3.727998	3.6340824	2.7661804	1.804051	1.004545	0.518737	0.26327	0.124753	0.058442	0.027744	0.014127	0.008218	0.004354	0.001964
CanadaAlbertaNorth	5.51551147	5.06869798	3.91204	2.906818	2.236648	1.8844818	1.8500439	1.919294	1.9927837	2.01978323	2.10260113	2.48079379	3.33184938	4.84244989	6.73077962	8.30895595	9.8681078	9.9452334	8.3753059	5.778434	3.597175	2.177719	1.26864	0.79522	0.475551	0.278974	0.167839	0.093551	0.057688	0.034601
CanadaAlbertaSouth	1.08825103	1.00799231	0.900856	0.808117	0.6985737	0.6292867	0.5920289	0.653336	0.7562671	1.0545366	1.48160504	1.85451513	2.24633247	2.63451876	2.68915997	2.64844505	2.8765084	3.0932078	2.7115207	1.914671	1.114155	0.56023	0.263103	0.120339	0.053908	0.028684	0.018471	0.012465	0.006024	0.002498
CanadaBCFraser	3.62129607	3.11418976	2.654402	2.348952	2.176386	2.1395066	2.2389617	2.574662	2.9221196	3.36724004	3.95946857	5.11255607	6.56270493	7.98902899	8.52707862	8.24347373	7.3145009	5.7809849	4.2775504	2.951358	1.888778	1.109182	0.621015	0.3304	0.176453	0.092439	0.050524	0.02777	0.015047	0.008018
CanadaBCInterior	2.47797569	2.47081287	2.422467	2.227564	1.9055668	1.5315253	1.2010825	0.984066	0.8581556	0.83242898	0.91424856	1.18776307	2.39365518	2.89418352	3.47629977	2.88963217	2.548824	2.185079	1.855538	1.54856	1.321469	1.100408	0.88518	0.693157	0.516132	0.408543	0.315902	0.248805	0.206612	0.161024
CanadaBCIsland	0.50746836	0.62558422	0.744644	0.806584	0.8376305	0.8375709	0.8326786	0.859934	0.8758529	0.89590711	0.9628855	1.20731054	1.62294353	1.97711225	1.81571486	1.42691664	1.0281479	0.7189316	0.5020577	0.348562	0.231951	0.154469	0.099636	0.065091	0.041469	0.02743	0.018346	0.014323	0.009808	0.006242
CanadaVancouverIslandSouthVancouverIsland	0.15896664	0.15476214	0.149086	0.166396	0.2015525	0.215097	0.2029999	0.185101	0.1935665	0.22452837	0.28748798	0.39859348	0.62198752	0.98698874	1.06998874	0.91785705	0.6861679	0.4745509	0.3027278	0.195025	0.145288	0.124257	0.112289	0.094658	0.075745	0.057321	0.044335	0.038741	0.03761	0.029173
CanadaVancouverIslandCentralVancouverIsland	0.21851375	0.40796265	0.660522	0.835261	0.8977749	0.8122639	0.7082752	0.681756	0.7351459	0.76454294	0.5867158	0.58561862	0.71287613	0.90604209	0.93746097	0.70510273	0.491159	0.3878099	0.3313546	0.247797	0.187694	0.130049	0.088619	0.061162	0.045869	0.0400313	0.0337071	0.030682	0.026494	0.016307
CanadaVancouverIslandNorthVancouverIsland	0.25426902	0.27251604	0.244837	0.206614	0.1721819	0.1657162	0.219347	0.388284	0.6302843	0.62642687	0.5099693	0.35612627	0.32063086	0.30625227	0.3203806	0.37561348	0.3589525	0.3174148	0.2843026	0.24882	0.203718	0.142304	0.086019	0.071647	0.045883	0.028684	0.023569	0.026209	0.023585	0.013301
CanadaBCNorthern	0.48449634	5.00471717	4.784082	4.445551	4.126646	3.8813995	3.7410939	3.686325	3.6770809	3.7798337	4.39256556	4.93015469	5.36552636	5.13425127	4.37032166	3.5129123	2.8108394	2.1639923	1.7180684	1.276221	0.888093	0.579428	0.35088	0.192775	0.115159	0.068519	0.043557	0.026725	0.015475	0.008023
CanadaBCVancouverCoastal	1.21047205	1.1863061	1.146689	1.158864	1.1795891	1.1894008	1.2320001	1.215993	1.2698038	1.45979539	1.72649484	2.38576621	3.47198864	4.28262423	3.850713	3.19865803	2.3546972	1.7778297	1.3176656	0.96911	0.60751	0.408395	0.241249	0.140167	0.084565	0.053027	0.034024	0.023376	0.014343	0.008616
CanadaManitobaInterlake&South	1.27504263	1.01526606	0.982737	1.028688	1.0082285	0.7958438	0.4870795	0.298628	0.1892085	0.13726704	0.10777359	0.09994756	0.10555124	0.13543097	0.123210297	0.1472366	0.6872088	1.0783346	1.5669311	1.800886	1.696305	1.491623	1.227136	1.006823	0.827625	0.765724	0.737563	0.782524	0.731512	0.689299
CanadaManitobaNorthern	4.50536005	5.09130625	6.74117	7.726597	7.0691605	5.9724841	5.1220897	4.719873	4.2160372	3.8902585	3.98352767	4.18677153	4.42367034	4.23626757	4.1200641	3.66027736	2.9657798	2.3258407	2.021436	1.973089	2.208389	2.248026	2.236652	2.079559	1.728126	1.377038	0.931233	0.659305	0.436167	
CanadaManitobaPrairieMountain	0.9631771	1.09704487	1.049522	0.840779	0.6112327	0.3759004	0.2266322	0.152319	0.1372883	0.16440873	0.23389816	0.2968580	0.38123839	0.5068012	0.61710343	0.9832569	1.5454102	2.0769743	2.323955	2.260367	2.229193	1.992202	1.474363	0.993426	0.682393	0.445856	0.329849	0.236717	0.174503	0.117883
CanadaManitobaSouthCentralHealth	1.23443972	0.8839525	0.652718	0.512968	0.4470116	0.417729	0.3632881	0.301299	0.2561737	0.2492855	0.2492812	0.2569034	0.43237425	0.49471365	0.60793078	0.67903078	1.0169328	1.5231236	2.2907023	3.179822	3.439374	3.008578	2.565727	2.073827	1.954178	1.994072	0.677048	0.477026	0.335013	0.248384
CanadaManitobaWinnipeg	1.97061697	1.66073366	1.288897	0.986402	0.7649458	0.6170632	0.5424219	0.514079	0.4731261	0.44212105	0.4762397	0.55903748	0.69928599	0.9205477	1.34896898	2.0479004	3.1208852	4.6452557	6.070054	6.021946	5.301223	3.66965	2.501331	1.613152	1.031694	0.704771	0.515415	0.398896	0.29791	
CanadaNLCentral	0.00745137	0.01236636	0.016306	0.018725	0.0226085	0.0230975	0.0666462	0.04371	0.0180408	0.00632017	0.00243484	0.0178387	0.01910246	0.0129827	0.01609543	0.03462395	0.0630598	0.1019962	0.0984655	0.070384	0.043712	0.026907	0.019107	0.017368	0.020038	0.033769	0.070711	0.147432	0.264796	0.426931
CanadaNLEastern	0.01928543	0.0196619	0.028644	0.070398	0.2126047	0.6531092	1.2128947	0.678669	0.2471145	0.08561478	0.0																			

CanadaQuebecMont-à-Riaigione	2.36392771	2.10742425	1.670301	1.370443	1.1158644	0.8911366	0.693802	0.573621	0.4420851	0.38701491	0.36483944	0.39458332	0.46527324	0.55363636	0.62566921	0.63719679	0.6690567	0.6225055	0.5171032	0.401942	0.307346	0.271711	0.195961	0.118255	0.08577	0.066603	0.054638	0.032428	0.037555	0.031882
CanadaQuebecNord-du-Quâàbéc	0.43329394	0.252774	0.080451	0.026654	0.056265	0.048025	0.054761	0.039619	0.0137187	0.03972235	0.03634512	0.07034222	0.07208222	0.08086634	0.03962202	0.05797962	0.1035232	0.1226509	0.2813468	0.275159	0.232761	0.110816	0.038519	0.021992	0.005453	0.001328	0.000427	0.000141	4.66e-05	0.000175
CanadaQuebecNunavik	0.0593061	0.15033379	0.048309	0.340799	0.2493843	0.1275306	0.1071412	0.132684	0.277215	0.24259056	0.11443052	0.04266439	0.05181222	0.03061297	0.00255838	0.00090034	0.000345	0.064885	0.0945531	0.053303	0.020161	0.00785	0.003033	0.00111	0.000418	0.000062	6.19e-05	2.41e-05	9.55e-06	0.384e-06
CanadaQuebecOutaouais	1.62326637	1.30685282	0.930783	0.650438	0.4750261	0.380322	0.383562	0.4015087	0.4786397	0.56276411	0.71819803	1.13240413	1.89102558	0.13262298	4.43885175	3.77774134	2.5798438	1.6573865	1.1095514	0.831231	0.64282	0.44941	0.384436	0.281787	0.220138	0.179208	0.143705	0.108228	0.078483	0.055666
CanadaQuebecSaguenay	2.46614811	1.58296047	0.772906	0.374548	0.1892457	0.105928	0.0717877	0.071646	0.1046953	0.19325727	0.36509922	0.63241488	0.7449147	0.73484104	0.68356623	0.66634538	0.6049397	0.6360941	0.6650589	0.601512	0.473771	0.302212	0.171813	0.088444	0.043454	0.022886	0.014184	0.01071	0.00963	0.004743
CanadaQuebecTerres-Cries-de-la-Baie-James	0.42572767	1.47778193	2.660864	3.298985	1.5682646	0.6500835	0.2933036	0.207744	0.0845145	0.02878846	0.030938625	0.03034131	0.00102328	0.00033486	0.0000908	0.00030318	9.53e-06	3.11e-06	8.40e-07	2.3e-07	7e-08	2e-08	1e-08	0	0	0	0	0	0	0
CanadaYukonYukon	0.09498595	0.0588957	0.005674	0.011882	0.0291579	0.0448803	0.0501115	0.0296683	0.0148023	0.07099477	0.02731274	0.04177485	0.05377286	0.0592856	0.06330888	0.07252882	0.0750052	0.0759753	0.03849118	0.084253	0.104642	0.221698	0.606173	1.836076	0.942746	6.649208	5.755985	3.659337	1.966609	0.1057824
CanadaSaskatchewanCentralEast	2.37854857	1.92648701	1.466243	1.040993	0.7128471	0.498014	0.3264051	0.232952	0.1550872	0.11648789	0.07652864	0.04749156	1.901385	2.00671815	2.28055019	2.58933602	2.9431052	3.192222	3.2842517	2.982346	2.881234	2.382432	1.922673	1.451575	1.104585	0.686029	0.641234	0.316288	0.218197	0.15099728
CanadaSaskatchewanCentralWest	0.81412437	0.75253053	0.742425	0.805665	0.8359498	0.7608149	0.5854556	0.427066	0.3008963	0.2847734	0.1468111	0.08976026	0.07293402	0.04546194	0.79585311	1.25751693	1.8175147	1.7910832	1.4195868	1.098423	0.900716	0.814125	0.761412	0.777873	0.791656	0.804859	0.706556	0.572464	0.444055	0.3091515
CanadaSaskatchewanFarNorthCentral	0.42818494	0.53924666	0.553581	0.240826	0.0920329	0.3324951	0.6214197	0.525884	0.8155674	0.70430172	0.31850523	0.12824849	1.7573221	1.04685516	0.77225885	0.7564662	0.4912619	0.1656489	0.6611384	0.210331	0.400215	0.526995	0.596291	0.398424	0.158675	0.284459	0.048705	0.064762	0.041376	0.17959137
CanadaSaskatchewanFarNorthWest	0.46190277	0.55166097	0.6305	0.83361	0.9861289	1.2705705	1.7850307	2.5976	3.5369122	4.40518606	5.19399382	5.3076835	2.81699565	1.95710401	1.43590001	1.11423462	0.8275269	0.71904	0.6497423	0.612719	0.614385	0.684432	0.785323	0.859977	0.92187	0.908394	0.933	0.784855	0.936722	0.839635
CanadaSaskatchewanFarNorthWest	1.89899177	1.55726054	1.348674	1.172322	1.1586797	1.1557613	1.2484335	1.332664	1.4761914	1.54660486	1.48311576	1.45265523	1.2886225	1.49749873	1.45097801	1.45735435	1.8552613	2.4304809	2.8563797	2.71257	1.262552	1.688237	1.387456	1.272078	1.914009	1.125754	1.139005	1.238915	1.297336	1.054997
CanadaSaskatchewanNorthCentral	3.70036652	3.36142498	2.842004	2.284816	1.746635	1.2821009	0.9594403	0.710371	0.5170246	0.40666262	0.2968452	0.20773742	1.56177291	1.49561097	1.51529458	1.69513256	2.042365	2.5640978	3.0984493	3.494389	3.958989	3.424259	2.927846	2.451629	1.877488	1.466511	1.109818	0.819922	0.622738	0.4543949
CanadaSaskatchewanNorthEast	1.35043457	1.17724427	1.031153	0.820408	0.6133593	0.4668114	0.3248701	0.234326	0.1821446	0.14046363	0.09380713	0.05800025	0.23251573	2.36794464	2.13128845	1.9622484	1.7250854	1.6068414	1.5244848	1.345848	1.16444	1.005139	0.845135	0.687461	0.525435	0.403766	0.311368	0.212549	0.15992746	0.105927
CanadaSaskatchewanNorthWest	3.68372871	3.1932806	2.673963	2.281354	1.7373774	1.2771295	0.911257	0.629441	0.4383639	0.3011986	0.19479219	0.12354019	1.1332088	1.29493217	1.68413902	2.2861515	2.7498581	2.9902908	2.987797	2.755389	2.432072	2.035547	1.660045	1.401717	1.078354	0.822416	0.666969	0.526802	0.3809284	0.257661
CanadaSaskatchewanRegina	0.40540555	1.77783782	1.339368	1.057076	0.8426454	0.6815726	0.5497129	0.422761	0.3146603	0.23675153	0.17863992	0.13325469	0.39790044	5.63251511	3.64587617	3.66980571	3.5058182	2.827425	4.3307599	3.297747	2.466461	1.852252	1.386282	1.090211	0.888376	0.723434	0.564894	0.437305	0.340522	0.256766
CanadaSaskatchewanSaskatoon	2.13053446	1.85204942	1.561437	1.176529	0.8159138	0.525263	0.367735	0.24979	0.180896	0.13068683	0.08888738	0.05866299	0.86418532	0.28884223	1.1475343	1.3919733	1.6295327	1.8928323	1.9974971	2.076733	2.001461	1.884059	1.566078	1.185374	0.842916	0.583534	0.399266	0.261353	0.172555	0.109672
CanadaSaskatchewanSouthCentral	2.0100372	1.97840601	1.881791	1.512916	0.9517977	0.5353034	0.276006	0.148206	0.0897383	0.06689593	0.03585893	0.01540942	0.10701394	0.26175421	0.20546337	2.433794	2.2448126	2.100953	1.851148	1.669368	1.451149	1.507547	1.409532	1.038746	0.645056	0.353117	0.214905	0.122482	0.067625	0.006926
CanadaSaskatchewanSouthEast	0.78407985	2.10557357	1.497332	1.036132	0.6725884	0.4798626	0.36061	0.271964	0.212464	0.16628672	0.11780365	0.08069261	1.17882393	2.1575409	3.59539594	4.80136122	4.9393168	4.7204362	4.098783	3.768549	3.171425	2.430894	1.811533	1.273708	0.851633	0.582762	0.379079	0.269439	0.172599	0.107905
CanadaSaskatchewanSouthWest	0.99868007	0.7510897	0.57114	0.406802	0.2703951	0.1721603	0.1185878	0.098665	0.1983597	0.1341408	0.07236942	0.0334675	0.23048111	0.0868978	0.40356634	0.28147016	0.3098509	0.1809852	1.8645314	1.605747	1.45926	1.149897	0.812602	0.601139	0.389025	0.239085	0.138965	0.092073	0.053876	0.022485
CanadaNovaScotia	0.85242488	0.04537981	0.034571	0.025691	0.0196452	0.0168272	0.0174122	0.020395	0.0240402	0.0250002	0.0251364	0.02561304	0.03022018	0.0382558	0.05717829	0.12843902	0.3851283	1.1088052	1.8681023	1.458102	0.930328	0.519805	0.26963	0.155192	0.097207	0.062142	0.04151	0.025866	0.015001	0.007627
CanadaManitoba	0.83618742	2.39942898	1.758886	1.301036	0.9731218	0.7546586	0.6405022	0.633825	0.6627477	0.72348064	0.84745564	0.94629819	1.47153147	2.21366044	3.44499923	3.920159	4.4194787	3.9139137	2.765817	1.704702	0.971873	0.561943	0.332796	1.93872	1.129213	0.706404	0.046791	0.031312	0.019814	0.001791
CanadaBritishColumbia	0.271286782	2.55508357	2.486312	2.583326	2.8888228	3.3624541	3.9533996	4.551193	5.1155635	5.60031271	5.95626259	6.44555558	6.14477369	5.9907175	5.61124455	5.4113192	4.5958034	4.0166723	3.3508768	2.917502	2.463493	1.986425	1.63153	1.321889	1.064797	0.854278	0.682861	0.544486	0.432895	0.3433229
CanadaManitoba	1.68382683	1.48574332	1.473045	1.356809	1.0873928	0.8909878	0.7637672	0.668949	0.5921274	0.55117077	0.59908424	0.6535558	0.70779833	0.94961732	1.25406197	1.7158484	2.3962493	3.3368169	3.948202	3.246391	1.986415	2.443674	1.80134	1.267809	0.881547	0.631224	0.47888	0.351429	0.268034	0.195734
CanadaNewBrunswick	0.0665494	1.16384378	0.184504	0.178085	0.1385298	0.0924098	0.0548559	0.032029	0.0196722	0.01842064	0.02381195	0.02469464	0.07198191	0.08116929	0.07948888	0.07715875	0.0801825	0.0811394	0.0700003	0.066947	0.071275	0.069206	0.058192	0.035546	0.019774	0.013316	0.007712	0.006848	0.004598	0.002568
CanadaQuebecTerres-Cries-de-la-Baie-James	0.00729098	0.00597981	0.0020125	0.012034	0.0300057	0.1069138	0.360143	0.614639	0.1346442	0.0854026	0.0184263	0.00839235	0.00596313	0.00596629	0.00792241	0.01215144	0.0213166	0.0407574	0.0632426	0.081848	0.087025	0.079828	0.056306	0.033383	0.0203	0.01948	0.020507	0.03484	0.061429	0.10653
CanadaOntario	1.59229273	1.71908977	1.474249	1.16863	0.9228579	0.7250875	0.6162577	0.515134	0.5687995	0.58685396	0.67037274	0.8240699	1.12312302	1.59591749	2.0122995	2.6136696	2.0469405	1.837374	1.5411615	1.21548	0.89347	0.609536	0.400862	0.271717	0.195059	0.13836	0.101156	0.077946	0.060195	0.046692
CanadaQuebecTerres-Cries-de-la-Baie-James	0.02283871	0.02276041	0.028816	0.02674	0.0232677	0.0203697	0.0258911	0.057545	0.0740782	0.0756938	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322	0.05664322
CanadaQuebec	2.04825312	2.07590687	1.643044	1.294443	1.0112945	0.8188759	0.6966576	0.600418	0.534019	0.4845339	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003	0.45588003

	YT	BC	AB	SK	MB	ON	QC	NWT	NU	NB	NL	NS	PEI
12/19/2020	80%	11%	4%	1%	0%	2%	1%	1%	0%	0%	0%	0%	0%
12/26/2020	80%	11%	4%	1%	0%	2%	1%	1%	0%	0%	0%	0%	0%
1/2/2021	78.4%	11.5%	4.9%	0.9%	0.4%	2.2%	0.7%	0.8%	0.0%	0.1%	0.1%	0.2%	0.0%
1/9/2021	76.7%	12.3%	5.2%	1.0%	0.4%	2.4%	0.7%	0.8%	0.0%	0.1%	0.1%	0.2%	0.0%
1/16/2021	75.1%	13.2%	5.6%	1.0%	0.5%	2.5%	0.8%	0.9%	0.0%	0.1%	0.1%	0.2%	0.0%
1/23/2021	73.4%	14.1%	6.0%	1.1%	0.5%	2.7%	0.8%	0.9%	0.0%	0.1%	0.1%	0.2%	0.0%
1/30/2021	71.8%	15.0%	6.3%	1.2%	0.5%	2.9%	0.9%	1.0%	0.0%	0.1%	0.2%	0.2%	0.0%
2/6/2021	70.1%	15.8%	6.7%	1.3%	0.6%	3.0%	0.9%	1.0%	0.0%	0.1%	0.2%	0.2%	0.0%
2/13/2021	68.5%	16.7%	7.1%	1.3%	0.6%	3.2%	1.0%	1.1%	0.0%	0.1%	0.2%	0.2%	0.0%
2/20/2021	66.8%	17.6%	7.5%	1.4%	0.6%	3.4%	1.0%	1.2%	0.1%	0.1%	0.2%	0.2%	0.0%
2/27/2021	65.2%	18.4%	7.8%	1.5%	0.7%	3.5%	1.1%	1.2%	0.1%	0.1%	0.2%	0.3%	0.0%
3/6/2021	63.5%	19.3%	8.2%	1.5%	0.7%	3.7%	1.1%	1.3%	0.1%	0.1%	0.2%	0.3%	0.0%
3/13/2021	61.9%	20.2%	8.6%	1.6%	0.7%	3.9%	1.2%	1.3%	0.1%	0.1%	0.2%	0.3%	0.0%
3/20/2021	60.2%	21.1%	8.9%	1.7%	0.8%	4.0%	1.2%	1.4%	0.1%	0.1%	0.2%	0.3%	0.0%
3/27/2021	58.6%	21.9%	9.3%	1.7%	0.8%	4.2%	1.3%	1.4%	0.1%	0.1%	0.2%	0.3%	0.0%
4/3/2021	56.9%	22.8%	9.7%	1.8%	0.8%	4.4%	1.3%	1.5%	0.1%	0.1%	0.2%	0.3%	0.0%
4/10/2021	55.3%	23.7%	10.1%	1.9%	0.9%	4.5%	1.4%	1.6%	0.1%	0.2%	0.2%	0.3%	0.0%
4/17/2021	53.6%	24.6%	10.4%	1.9%	0.9%	4.7%	1.4%	1.6%	0.1%	0.2%	0.2%	0.3%	0.0%
4/24/2021	52.0%	25.4%	10.8%	2.0%	0.9%	4.9%	1.5%	1.7%	0.1%	0.2%	0.3%	0.4%	0.0%
5/1/2021	50.3%	26.3%	11.2%	2.1%	0.9%	5.0%	1.5%	1.7%	0.1%	0.2%	0.3%	0.4%	0.0%
5/8/2021	48.7%	27.2%	11.5%	2.2%	1.0%	5.2%	1.6%	1.8%	0.1%	0.2%	0.3%	0.4%	0.0%
5/15/2021	47.0%	28.0%	11.9%	2.2%	1.0%	5.4%	1.6%	1.8%	0.1%	0.2%	0.3%	0.4%	0.0%
5/22/2021	45.4%	28.9%	12.3%	2.3%	1.0%	5.5%	1.7%	1.9%	0.1%	0.2%	0.3%	0.4%	0.0%
5/29/2021	43.7%	29.8%	12.6%	2.4%	1.1%	5.7%	1.7%	2.0%	0.1%	0.2%	0.3%	0.4%	0.0%
6/5/2021	42.1%	30.7%	13.0%	2.4%	1.1%	5.9%	1.8%	2.0%	0.1%	0.2%	0.3%	0.4%	0.0%
6/12/2021	40.4%	31.5%	13.4%	2.5%	1.1%	6.0%	1.8%	2.1%	0.1%	0.2%	0.3%	0.4%	0.0%
6/19/2021	38.8%	32.4%	13.8%	2.6%	1.2%	6.2%	1.9%	2.1%	0.1%	0.2%	0.3%	0.5%	0.0%
6/26/2021	37.1%	33.3%	14.1%	2.6%	1.2%	6.4%	1.9%	2.2%	0.1%	0.2%	0.3%	0.5%	0.0%
7/3/2021	35.5%	34.2%	14.5%	2.7%	1.2%	6.5%	2.0%	2.2%	0.1%	0.2%	0.3%	0.5%	0.0%
7/10/2021	33.8%	35.0%	14.9%	2.8%	1.3%	6.7%	2.0%	2.3%	0.1%	0.2%	0.4%	0.5%	0.0%
	34%	35.0%	14.9%	2.8%	1.3%	6.7%	2.0%	2.3%	0.1%	0.2%	0.4%	0.5%	0.0%
		52.9%	22.5%	4.2%	1.9%	10.1%	3.0%	3.5%	0.2%	0.3%	0.5%	0.8%	0.0%

*Start with 80% Yukon and keep other proportions the same as now (relative to each other)

66%

[illegible]

[illegible]

[illegible]

	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.8%	16.8%	52.4%	34.9%	19.5%	25.2%	56.2%	10.8%	19.4%	13.8%	26.7%	9.7%	38.9%
3/20/2021													
	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	4.7%	43.1%	61.1%	51.1%	31.9%	43.8%	69.9%	8.4%	28.5%	20.8%	48.3%	18.8%	52.0%
3/27/2021													
	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	5.2%	65.5%	64.8%	58.0%	47.5%	59.7%	79.7%	7.4%	31.3%	52.8%	65.7%	39.1%	51.9%
4/3/2021													
	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	5.0%	75.3%	63.2%	60.9%	51.4%	65.7%	85.1%	7.6%	26.8%	72.9%	76.7%	48.5%	46.1%
4/10/2021													
	0.0%	0.2%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.1%	0.0%	0.1%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.8%	78.5%	47.8%	63.1%	53.7%	68.1%	89.5%	6.3%	23.9%	77.3%	79.3%	63.3%	36.7%

4/17/2021

0.0%	0.2%	0.2%	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.2%	0.1%	0.0%	0.1%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27.7%	35.4%	59.5%	44.0%	16.4%	32.0%	32.8%	37.9%	0.0%	31.8%	27.5%	9.7%	23.7%
6.6%	33.9%	57.1%	63.1%	35.0%	46.3%	58.3%	9.3%	0.0%	27.7%	20.8%	22.9%	16.8%
4.4%	76.2%	55.7%	76.1%	68.7%	74.3%	88.2%	5.0%	12.1%	56.4%	78.0%	59.9%	63.6%
2.2%	80.2%	27.6%	63.7%	56.2%	69.4%	91.5%	6.5%	16.0%	79.8%	81.1%	66.7%	26.1%

4/24/2021

0.0%	0.4%	0.3%	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.2%	0.2%	0.0%	0.1%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3.8%	16.1%	42.6%	36.3%	13.7%	22.0%	22.8%	6.6%	0.0%	16.0%	15.0%	9.3%	10.7%
5.8%	49.7%	61.2%	71.6%	51.3%	59.3%	69.7%	8.4%	0.0%	37.8%	35.8%	46.7%	30.1%
4.5%	82.5%	50.1%	78.3%	78.0%	78.3%	90.6%	5.0%	10.1%	72.9%	85.5%	76.0%	76.7%
2.2%	81.3%	17.1%	64.8%	60.7%	70.1%	92.2%	5.9%	13.1%	78.3%	82.3%	69.2%	19.3%

5/1/2021

0.0%	0.4%	0.5%	0.3%	0.0%	0.3%	0.2%	0.0%	0.0%	0.2%	0.2%	0.1%	0.1%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3.2%	20.1%	54.1%	42.2%	18.2%	27.3%	27.4%	6.1%	0.0%	17.6%	19.6%	14.1%	12.3%
5.7%	64.2%	64.6%	74.5%	67.0%	68.4%	77.2%	8.3%	0.0%	48.5%	54.3%	62.8%	46.4%
4.5%	85.2%	47.5%	79.4%	81.0%	80.8%	91.8%	5.2%	10.7%	78.4%	88.2%	81.1%	82.1%
1.9%	82.0%	12.2%	65.2%	62.3%	70.8%	90.4%	5.7%	9.1%	76.9%	82.9%	69.8%	18.3%

5/8/2021

0.0%	0.5%	1.0%	0.4%	0.0%	0.5%	0.3%	4.2%	0.0%	0.3%	0.4%	0.1%	0.2%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3.1%	27.4%	70.3%	45.7%	28.1%	32.9%	35.0%	5.5%	0.0%	22.2%	23.0%	19.3%	15.2%
5.6%	73.9%	69.6%	76.8%	72.1%	73.8%	82.0%	7.8%	0.0%	62.0%	65.4%	74.2%	68.2%
4.6%	86.5%	47.4%	80.5%	82.7%	82.4%	91.9%	5.4%	10.4%	83.1%	90.5%	84.2%	83.7%
1.7%	81.9%	11.5%	64.9%	63.4%	71.3%	88.2%	5.9%	9.1%	76.4%	83.9%	70.9%	17.7%

5/15/2021

	0.0%	0.8%	4.5%	0.6%	0.1%	0.9%	0.4%	12.6%	0.0%	0.4%	1.0%	0.2%	0.4%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.0%	35.4%	78.7%	47.6%	33.6%	37.9%	40.4%	5.3%	0.0%	31.0%	29.3%	36.6%	24.0%
	5.3%	77.7%	72.0%	78.3%	75.1%	77.2%	82.9%	7.6%	0.0%	71.3%	75.3%	80.6%	79.4%
	4.3%	87.0%	47.9%	81.2%	84.3%	83.6%	90.3%	5.0%	8.8%	84.7%	91.6%	87.4%	85.1%
	1.7%	80.1%	11.8%	64.6%	64.2%	71.8%	82.6%	6.1%	8.5%	75.9%	84.4%	72.1%	17.3%
5/22/2021													
	0.0%	3.5%	4.5%	5.3%	2.0%	3.3%	0.8%	15.9%	0.0%	1.0%	4.1%	0.3%	1.4%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	2.8%	38.3%	78.8%	48.3%	35.9%	41.6%	43.9%	5.1%	0.0%	39.2%	37.1%	47.5%	32.6%
	5.3%	79.0%	72.1%	78.6%	76.7%	78.7%	83.7%	7.4%	0.0%	75.6%	79.5%	83.1%	82.4%
	3.7%	87.4%	47.9%	80.5%	85.1%	84.1%	89.1%	4.7%	6.4%	85.5%	92.1%	88.9%	85.7%
	1.0%	79.5%	11.8%	54.3%	64.6%	71.9%	74.9%	5.7%	7.4%	75.0%	83.8%	72.9%	13.2%
5/29/2021													
	0.0%	11.0%	14.9%	10.9%	6.3%	8.1%	3.8%	21.4%	0.0%	3.3%	7.4%	1.0%	3.2%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	2.7%	39.3%	87.1%	48.6%	36.7%	43.5%	45.6%	4.7%	0.0%	41.9%	43.7%	49.9%	37.5%
	4.7%	79.6%	72.2%	78.3%	76.3%	77.8%	83.5%	6.9%	0.0%	77.3%	82.0%	84.8%	83.5%
	3.3%	86.9%	45.2%	71.3%	82.8%	84.1%	86.3%	4.6%	4.4%	85.5%	92.6%	90.0%	86.1%
	0.8%	78.0%	11.6%	29.6%	60.6%	71.6%	67.3%	5.7%	7.4%	73.5%	83.1%	74.3%	11.8%
6/5/2021													
	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	42.9%	52.9%	40.0%	33.7%	36.6%	31.7%	48.4%	0.0%	37.1%	31.0%	13.8%	15.8%
	2.5%	38.9%	85.8%	47.1%	35.3%	44.1%	45.8%	4.3%	11.0%	43.7%	47.2%	50.5%	40.6%
	4.3%	77.7%	60.3%	66.4%	70.8%	75.9%	82.2%	7.8%	10.9%	78.4%	83.3%	85.4%	84.6%
	3.0%	80.0%	34.8%	37.3%	75.6%	80.0%	80.7%	8.0%	7.6%	85.8%	91.4%	91.5%	85.4%
	1.4%	67.3%	10.4%	16.2%	53.9%	55.2%	62.1%	9.0%	7.4%	73.9%	79.8%	75.0%	11.7%
6/12/2021													
	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	53.1%	55.9%	49.3%	45.3%	48.1%	58.3%	30.5%	0.0%	54.3%	42.8%	34.1%	32.5%

	2.3%	36.1%	77.5%	41.8%	33.7%	42.2%	45.1%	3.3%	11.6%	42.4%	48.4%	51.2%	41.8%
	4.0%	69.6%	44.3%	38.9%	65.8%	66.7%	75.0%	5.7%	11.5%	75.5%	82.9%	84.9%	84.0%
	2.7%	60.7%	22.3%	19.8%	64.9%	62.0%	64.0%	5.7%	8.5%	80.2%	86.1%	89.8%	82.8%
	1.7%	47.4%	8.5%	10.8%	34.8%	40.2%	47.5%	7.6%	9.7%	60.7%	73.0%	70.4%	11.5%
6/19/2021													
	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	57.4%	55.4%	55.2%	48.9%	54.6%	69.9%	26.1%	26.5%	58.5%	57.8%	63.8%	58.4%
	2.3%	33.5%	59.9%	28.8%	30.2%	37.0%	40.7%	3.1%	11.9%	38.4%	47.5%	52.7%	41.9%
	3.7%	60.7%	30.8%	25.2%	53.5%	53.5%	60.0%	5.7%	11.0%	63.1%	79.5%	76.2%	82.4%
	2.4%	42.2%	14.2%	13.3%	43.7%	43.7%	48.4%	5.4%	8.3%	62.7%	76.1%	78.9%	78.2%
	1.1%	32.2%	6.8%	8.7%	21.6%	29.2%	37.1%	7.2%	9.7%	42.9%	65.6%	58.8%	11.1%
6/26/2021													
	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	47.4%	61.7%	53.6%	52.6%	47.9%	56.4%	71.6%	22.7%	44.5%	60.7%	66.4%	68.7%	68.6%
	2.4%	28.3%	49.9%	16.5%	22.3%	29.3%	36.1%	3.2%	12.0%	32.5%	44.6%	45.1%	40.7%
	4.0%	43.8%	24.4%	14.2%	36.8%	40.1%	44.0%	5.7%	10.8%	47.3%	69.5%	57.7%	77.5%
	2.6%	24.0%	10.7%	8.9%	23.6%	29.1%	29.7%	5.5%	7.4%	40.9%	61.0%	52.3%	45.9%
	1.8%	18.6%	5.7%	6.9%	15.1%	20.5%	21.5%	7.0%	9.7%	28.6%	55.3%	40.4%	7.7%
7/3/2021													
	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%
	33.9%	64.1%	39.2%	43.7%	42.9%	53.3%	72.1%	20.0%	48.2%	58.1%	70.1%	69.2%	71.4%
	2.5%	22.8%	30.9%	11.6%	15.1%	21.5%	28.5%	3.1%	11.3%	24.9%	41.4%	33.2%	39.0%
	4.0%	28.5%	16.7%	10.6%	22.0%	27.5%	28.6%	5.5%	11.1%	34.2%	59.7%	36.6%	65.6%
	2.7%	13.9%	6.2%	7.0%	12.4%	18.7%	19.1%	5.3%	7.4%	27.0%	46.3%	33.3%	20.4%
	2.0%	11.7%	4.0%	6.0%	10.0%	14.4%	14.8%	6.8%	9.7%	21.2%	44.0%	30.9%	7.0%
7/10/2021													
	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%
	18.8%	65.3%	31.9%	34.8%	35.0%	44.6%	70.7%	17.2%	44.9%	47.0%	68.5%	66.6%	74.1%
	2.4%	15.7%	24.0%	8.6%	10.9%	14.9%	20.0%	3.0%	10.7%	18.0%	36.4%	19.8%	34.1%
	3.9%	15.7%	15.0%	8.2%	12.1%	18.3%	19.7%	5.1%	10.9%	24.0%	50.9%	24.9%	39.9%

2.9%	8.5%	4.8%	5.8%	8.5%	13.3%	13.2%	5.0%	7.3%	18.7%	37.0%	25.3%	10.6%
1.7%	8.3%	3.3%	5.4%	7.4%	10.1%	10.0%	6.7%	8.5%	16.0%	31.4%	21.1%	5.5%

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[illegible]

[illegible]

	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	85.6%	7.7%	14.0%	14.1%	11.7%	11.2%	0.0%	89.4%	54.7%	3.6%	4.7%	3.6%	19.8%
3/20/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	86.2%	7.7%	14.3%	15.4%	13.9%	12.4%	0.0%	91.9%	55.3%	3.6%	5.3%	5.0%	19.9%
3/27/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	86.2%	7.7%	14.9%	20.0%	19.0%	13.2%	0.0%	92.9%	55.8%	3.6%	5.4%	5.4%	29.5%
4/3/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	86.5%	7.7%	18.4%	22.4%	24.0%	14.1%	0.0%	93.1%	63.2%	3.7%	5.4%	11.1%	43.9%
4/10/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	87.8%	7.7%	35.6%	23.8%	29.3%	14.4%	0.3%	94.7%	66.1%	4.0%	5.4%	13.0%	57.2%

4/17/2021

0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
97.4%	4.1%	17.7%	10.3%	13.3%	5.4%	1.2%	94.7%	0.0%	7.6%	4.7%	9.2%	8.7%
73.4%	1.6%	3.1%	3.5%	5.7%	2.4%	0.3%	76.0%	0.0%	1.8%	0.8%	2.9%	3.4%
91.0%	1.5%	25.1%	6.6%	6.1%	2.7%	0.2%	89.9%	76.4%	1.5%	1.2%	2.1%	5.3%
89.2%	7.8%	57.1%	24.3%	30.5%	15.0%	0.6%	95.3%	74.6%	4.6%	5.4%	14.3%	68.6%

4/24/2021

0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28.7%	1.3%	4.4%	3.1%	4.0%	1.7%	0.6%	29.9%	0.0%	2.6%	1.2%	3.1%	2.8%
75.2%	1.7%	3.4%	3.6%	5.9%	2.5%	0.5%	77.7%	0.0%	2.5%	0.8%	3.3%	3.5%
92.1%	1.5%	32.2%	6.7%	6.4%	2.9%	0.5%	90.1%	81.3%	2.6%	1.3%	2.6%	5.7%
89.9%	7.8%	68.3%	24.4%	31.2%	15.4%	1.4%	95.8%	77.5%	8.3%	5.6%	15.6%	76.8%

5/1/2021

0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
29.7%	1.3%	4.6%	3.2%	4.1%	1.8%	1.1%	30.8%	0.0%	2.9%	1.3%	3.2%	2.9%
76.3%	1.7%	3.9%	3.7%	6.1%	2.7%	1.0%	78.6%	0.0%	3.0%	0.8%	3.5%	3.7%
92.9%	1.5%	36.2%	6.8%	6.6%	3.2%	1.1%	90.4%	82.6%	3.2%	1.3%	3.0%	5.9%
91.1%	8.0%	74.0%	24.6%	31.4%	15.7%	4.2%	96.2%	81.5%	10.9%	5.6%	16.8%	78.6%

5/8/2021

0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30.2%	1.5%	5.0%	3.4%	4.3%	1.9%	1.8%	32.0%	0.0%	3.2%	1.3%	3.3%	3.0%
77.2%	2.0%	4.9%	3.9%	6.3%	2.9%	1.6%	79.7%	0.0%	3.5%	0.8%	3.7%	3.8%
93.7%	1.8%	37.9%	7.1%	6.7%	3.5%	1.8%	91.0%	83.7%	3.7%	1.3%	3.2%	6.2%
91.7%	8.9%	75.5%	25.6%	31.6%	16.1%	7.2%	96.6%	83.2%	12.5%	5.6%	17.5%	79.9%

5/15/2021

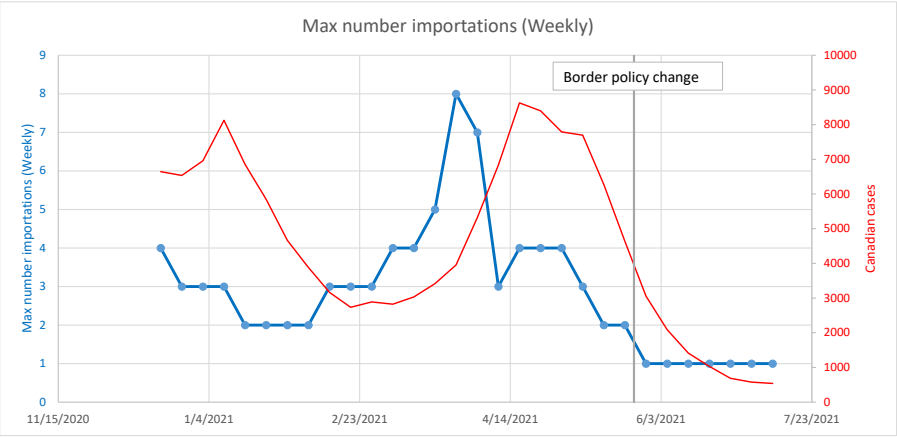
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	30.7%	1.8%	5.4%	3.6%	4.6%	2.1%	3.7%	32.4%	0.0%	3.5%	1.3%	3.4%	3.4%
	78.3%	2.5%	5.6%	4.2%	6.6%	3.3%	3.9%	80.5%	0.0%	4.1%	0.9%	3.9%	4.1%
	94.7%	2.4%	38.7%	7.4%	6.9%	3.9%	4.2%	91.6%	85.4%	4.2%	1.3%	3.3%	6.4%
	91.8%	11.4%	75.9%	26.6%	31.8%	16.4%	13.5%	96.8%	83.7%	13.9%	5.6%	18.3%	81.1%
5/22/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	31.3%	2.0%	5.4%	3.9%	5.0%	2.8%	4.3%	32.9%	0.0%	3.9%	1.3%	3.7%	3.5%
	79.0%	2.9%	5.6%	4.8%	7.1%	4.2%	4.7%	81.2%	0.0%	4.7%	1.0%	4.2%	4.3%
	95.4%	2.7%	38.7%	8.7%	7.4%	4.5%	6.1%	92.1%	88.2%	4.8%	1.5%	3.5%	6.8%
	92.2%	12.6%	75.9%	37.5%	32.3%	16.9%	21.9%	97.2%	84.9%	15.3%	6.8%	18.4%	85.8%
5/29/2021													
	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	31.6%	2.4%	7.7%	4.4%	6.1%	3.7%	4.8%	33.5%	0.0%	4.2%	1.5%	3.8%	4.1%
	80.0%	3.5%	9.4%	5.7%	9.4%	6.7%	6.0%	82.0%	0.0%	5.4%	1.1%	4.4%	5.0%
	96.7%	3.8%	42.9%	18.4%	10.7%	5.3%	9.4%	92.5%	90.5%	5.6%	1.8%	3.6%	7.3%
	92.5%	14.6%	77.0%	63.5%	37.0%	17.7%	30.2%	97.4%	84.9%	17.4%	8.1%	19.0%	87.6%
6/5/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.1%	0.5%	0.2%	0.1%	0.4%	1.1%	2.5%	0.0%	0.6%	0.0%	0.1%	0.1%
	32.0%	3.7%	12.0%	5.4%	8.4%	4.9%	6.3%	31.0%	70.2%	4.9%	2.0%	3.9%	4.5%
	80.8%	6.2%	22.5%	16.9%	15.8%	9.8%	8.3%	77.6%	89.2%	6.4%	1.7%	4.6%	5.5%
	96.9%	11.4%	54.0%	52.8%	18.8%	9.9%	15.7%	90.4%	89.5%	6.9%	3.4%	3.8%	8.8%
	91.4%	25.9%	78.6%	76.9%	44.3%	35.1%	36.0%	96.0%	85.5%	19.7%	12.1%	19.9%	88.4%
6/12/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.2%	1.5%	0.3%	0.6%	0.7%	2.4%	28.3%	0.0%	0.8%	0.1%	0.1%	0.2%

	32.4%	7.1%	22.3%	11.0%	11.0%	8.0%	7.8%	32.5%	71.3%	7.7%	3.4%	4.2%	5.5%
	81.7%	15.0%	39.5%	45.3%	21.8%	19.9%	16.1%	80.8%	90.2%	10.6%	4.1%	5.8%	7.4%
	97.5%	31.2%	67.1%	71.2%	30.2%	28.7%	32.8%	93.1%	89.6%	13.1%	9.6%	4.5%	12.0%
	92.4%	46.4%	80.8%	82.8%	64.0%	51.0%	51.1%	97.6%	85.5%	33.8%	19.7%	23.5%	89.0%
6/19/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.4%	3.8%	0.9%	1.8%	2.1%	3.1%	35.4%	0.0%	0.9%	0.3%	0.1%	0.2%
	32.9%	10.1%	41.4%	24.7%	15.3%	13.8%	12.6%	33.1%	72.8%	12.4%	6.2%	5.2%	6.7%
	83.1%	24.4%	54.0%	59.8%	35.1%	33.7%	31.5%	81.9%	91.8%	23.7%	9.3%	12.6%	10.0%
	98.4%	50.2%	75.9%	78.4%	52.3%	47.6%	48.8%	94.1%	90.4%	30.8%	20.5%	15.7%	17.4%
	93.0%	62.0%	82.8%	85.2%	77.6%	62.7%	61.8%	98.6%	85.5%	52.0%	27.8%	35.9%	89.6%
6/26/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	20.5%	0.6%	6.3%	5.4%	5.6%	5.0%	3.4%	40.9%	0.0%	1.8%	0.6%	0.2%	0.3%
	33.3%	15.9%	52.2%	37.6%	24.0%	22.3%	17.6%	33.3%	74.3%	19.5%	10.4%	11.4%	9.1%
	83.6%	42.2%	60.9%	71.7%	52.8%	47.7%	47.9%	82.1%	93.7%	40.8%	20.3%	33.3%	16.1%
	99.6%	69.0%	79.7%	83.4%	73.2%	62.3%	67.7%	94.6%	91.5%	52.9%	36.0%	42.1%	50.3%
	93.0%	76.3%	84.1%	87.4%	84.7%	70.3%	77.0%	98.8%	86.0%	63.9%	38.7%	55.6%	93.2%
7/3/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	36.2%	1.0%	22.2%	15.7%	13.4%	10.8%	4.1%	44.9%	0.0%	6.4%	1.7%	1.0%	0.5%
	33.6%	21.8%	72.6%	43.0%	32.1%	30.5%	25.5%	33.6%	75.8%	27.5%	14.0%	22.9%	11.6%
	84.2%	58.1%	71.3%	75.8%	68.8%	60.9%	63.6%	82.6%	94.9%	54.4%	30.3%	55.2%	28.8%
	100.1%	79.7%	84.6%	85.5%	85.2%	73.0%	78.6%	95.0%	92.0%	67.2%	51.6%	62.6%	76.4%
	93.1%	83.7%	86.0%	88.4%	90.3%	76.6%	84.1%	99.0%	86.6%	71.6%	55.2%	65.9%	95.5%
7/10/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	54.6%	2.1%	30.3%	26.2%	23.9%	21.5%	6.4%	49.0%	9.4%	19.5%	4.3%	4.8%	0.9%
	33.9%	29.3%	80.4%	46.4%	37.0%	37.6%	34.3%	33.8%	77.1%	35.1%	20.7%	37.2%	17.1%
	84.7%	71.4%	74.9%	78.6%	79.6%	70.6%	72.8%	83.1%	95.8%	65.4%	46.8%	68.1%	55.5%

100.3%	85.5%	86.1%	87.0%	89.8%	78.8%	84.8%	95.5%	93.0%	76.0%	67.6%	71.4%	87.2%
93.5%	87.5%	86.8%	89.2%	93.4%	81.1%	89.2%	99.2%	87.7%	77.1%	71.6%	76.4%	96.9%

Date	Number of unique traveling groups	Daily probability of at least 1 importation	Days between importation (P=50%)	Days between importation (P=90%)	Probability a given traveler is infected	Most likely number importations (Daily)	Most likely number importations (Weekly)	Max number importations (Daily)	Max number importations (Weekly)
12/19/2020	60	36.4%	2	5	0.0047	0	1	1	4
12/26/2020	41	33.0%	2	6	0.0040	0	1	1	3
1/2/2021	65	32.3%	2	6	0.0035	0	1	1	3
1/9/2021	64	27.0%	2	7	0.0028	0	1	1	3
1/16/2021	42	17.8%	4	12	0.0027	0	0	1	2
1/23/2021	48	16.8%	4	13	0.0025	0	0	1	2
1/30/2021	44	15.3%	4	14	0.0024	0	0	1	2
2/6/2021	52	18.2%	3	11	0.0025	0	0	1	2
2/13/2021	72	24.3%	2	8	0.0028	0	1	1	3
2/20/2021	69	24.0%	3	8	0.0027	0	1	1	3
2/27/2021	67	21.8%	3	9	0.0027	0	1	1	3
3/6/2021	72	34.5%	2	5	0.0042	0	2	1	4
3/13/2021	67	39.4%	1	5	0.0052	0	2	1	4
3/20/2021	67	46.2%	1	4	0.0065	0	3	1	5
3/27/2021	99	59.7%	1	3	0.0074	0	5	2	8
4/3/2021	107	56.0%	1	3	0.0060	0	4	2	7
4/10/2021	25	21.6%	3	9	0.0063	0	1	1	3
4/17/2021	115	27.8%	2	7	0.0022	0	1	1	4
4/24/2021	96	37.1%	1	5	0.0035	0	2	1	4
5/1/2021	97	28.5%	2	7	0.0026	0	1	1	4
5/8/2021	129	25.7%	2	8	0.0018	0	1	1	3
5/15/2021	98	14.9%	4	14	0.0012	0	0	1	2
5/22/2021	99	10.3%	6	21	0.0008	0	0	0	2
5/29/2021	70	5.1%	13	44	0.0005	0	0	0	1
6/5/2021	207	6.9%	10	32	0.0003	0	0	0	1
6/12/2021	190	4.7%	14	48	0.0002	0	0	0	1
6/19/2021	260	3.9%	17	57	0.0001	0	0	0	1
6/26/2021	220	2.6%	26	87	0.0001	0	0	0	1
7/3/2021	309	2.4%	29	96	0.0001	0	0	0	1
7/10/2021	357	1.8%	38	126	0.0001	0	0	0	1

Date	Max number importations (Weekly)	Canadian cases	BC cases
12/19/2020	4	6643.5	652
12/26/2020	3	6535	512
1/2/2021	3	6959	485
1/9/2021	3	8125.5	539
1/16/2021	2	6854.5	509
1/23/2021	2	5849.5	500
1/30/2021	2	4660	471
2/6/2021	2	3879	429
2/13/2021	3	3162	449
2/20/2021	3	2733.5	431
2/27/2021	3	2887	492
3/6/2021	4	2822	545
3/13/2021	4	3031	550
3/20/2021	5	3414.5	556
3/27/2021	8	3953.5	716
4/3/2021	7	5319.5	840
4/10/2021	3	6833	1068
4/17/2021	4	8627	1027
4/24/2021	4	8400	933
5/1/2021	4	7789	835
5/8/2021	3	7695.5	671
5/15/2021	2	6275	566
5/22/2021	2	4635	420
5/29/2021	1	3058	293
6/5/2021	1	2085.5	199
6/12/2021	1	1414	148
6/19/2021	1	1030	108
6/26/2021	1	688	72
7/3/2021	1	575	36
7/10/2021	1	539	46



From: [Diarmuid.O'Donovan](#)
To: [Brian.Gaas](#)
Subject: RE: State of origin for US travelers?
Date: Thursday, July 22, 2021 1:02:54 PM
Attachments: [image003.png](#)
[image005.png](#)
[image009.png](#)
[image010.png](#)
[image011.png](#)

Hi Brian,

It is a good question; I will reach out to the CBSA office to see if that level of detail is collected and can be shared.

From the Yukon side, please note that Cabinet has decided to lift the requirement for travelers entering Yukon to make a declaration at the Yukon border, effective 4 August 2021. Therefore any of that data that you may have been using for surveillance (in the Proof database) will cease to be updated after 4 August. Yet another challenge...

Cheers,



Diarmuid O'Donovan

Director

Community Services | Protective Services | Emergency Measures Organization

T 867-667-5220 | C 867-332-1239 | Diarmuid.O'Donovan@yukon.ca | Yukon.ca

From: Brian.Gaas <Brian.Gaas@yukon.ca>

Sent: July 22, 2021 12:53 PM

To: Diarmuid.O'Donovan <Diarmuid.O'Donovan@yukon.ca>

Subject: State of origin for US travelers?

Hello Diarmuid:

Do you know if the border crossing folks—either Yukon's or the feds—track which state US travelers are coming from? With increased attention/planning on changing visitor isolation requirements, I need to start calculating the importation risk from international travelers... and it would be helpful to know just where those travelers are coming from.

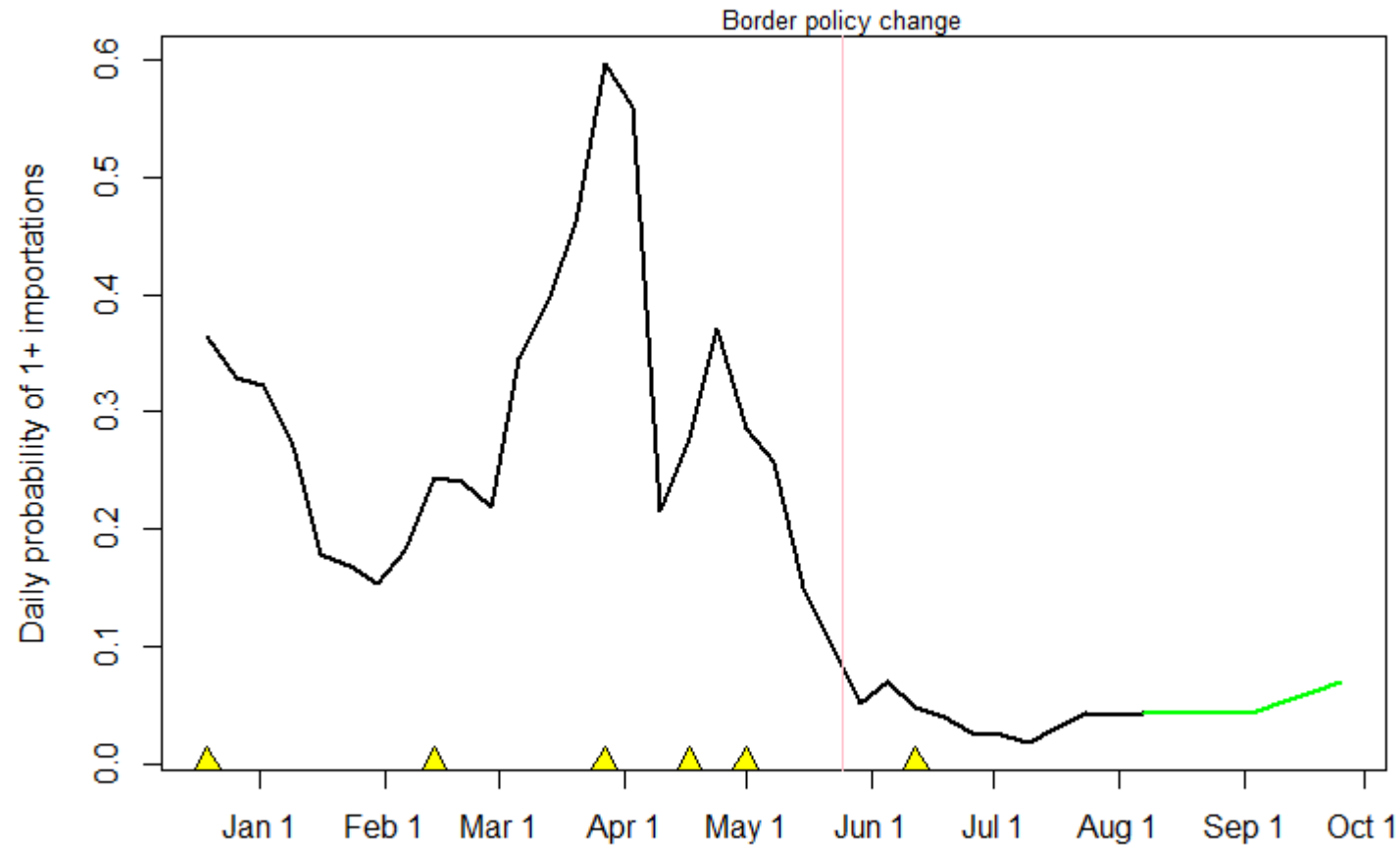
We might be limited to what is entered on the traveler declaration forms, but sometimes (often) the responses only mention the border crossing station and not where in the US they actually came from. Just seeing if there is a different place where information might be hiding I could access...

Thanks!

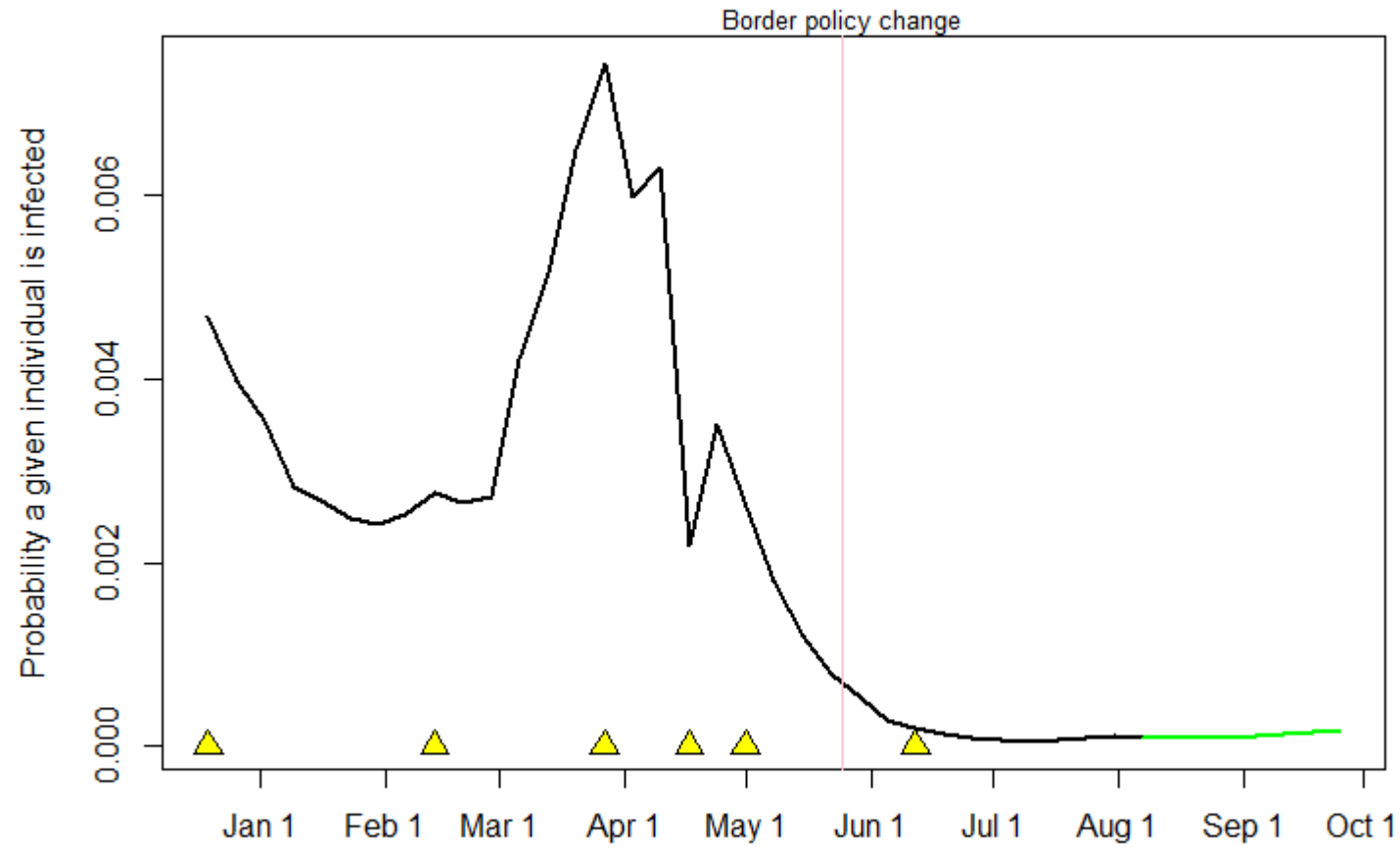
~Brian

From: [Brian.Gaas](#)
To: [Shannon.Ryan](#)
Cc: [Lisa.Oddy](#)
Subject: Importation results
Date: Monday, July 26, 2021 4:06:14 PM
Attachments: [Importion_probability-July 26.pptx](#)

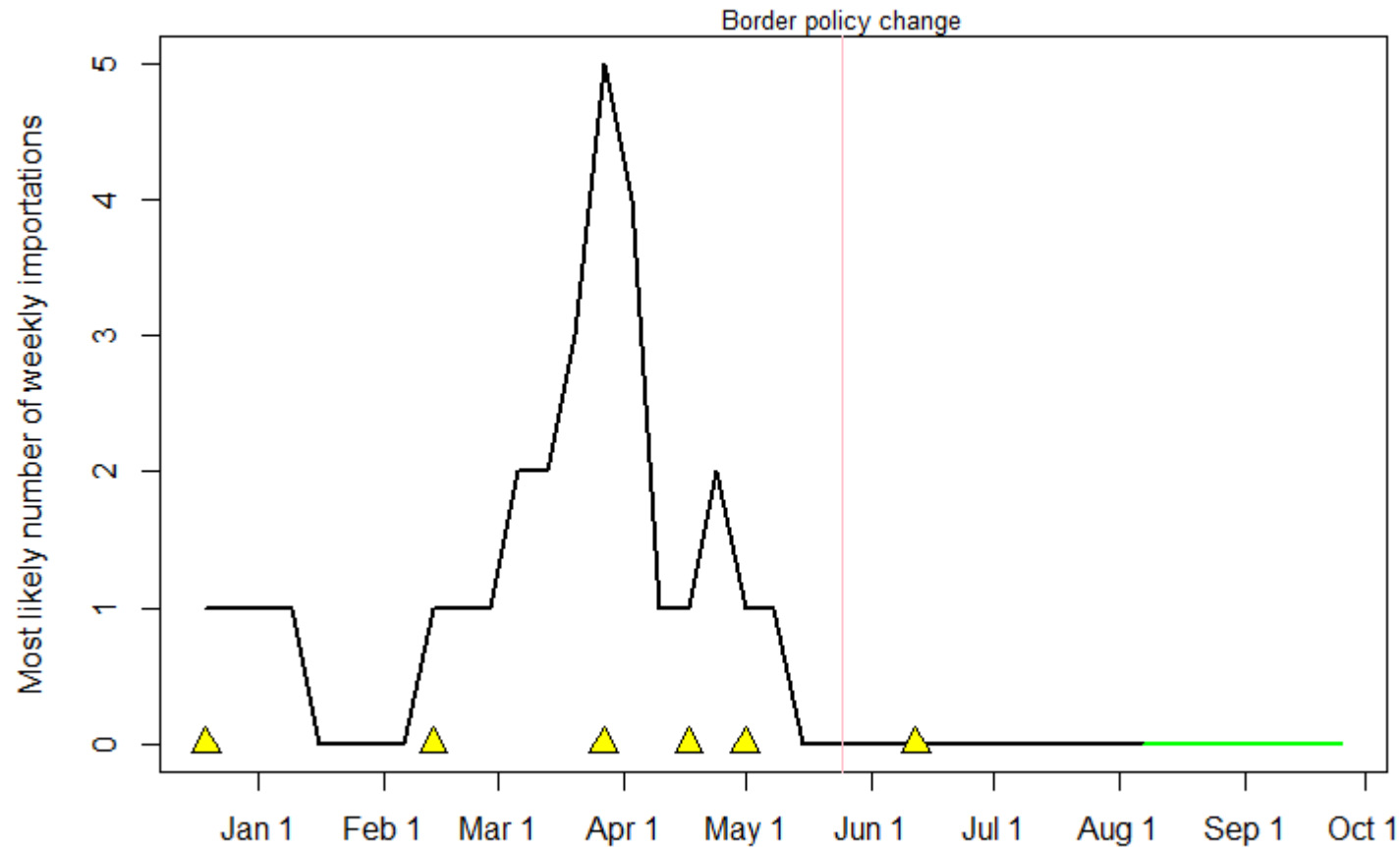
Attached.



- Black line is the estimated historical trend
 - Green line is the predicted future trend
 - Yellow triangles are observed imported cases
-
- Increase through July is due to increase in number of travelers
 - The increase in Sept is due to increasing prevalence in Canada and the US from the delta variant in the unvaccinated population
 - Future results are not very sensitive to number of [US] travelers
 - Future results are not especially sensitive to the prevalence in the US
 - These trends are severely mitigated by the proportion of the population that is vaccinated. This could change (worse results) if a higher proportion of unvaccinated people start traveling



- Black line is the estimated historical trend
- Green line is the predicted future trend
- Yellow triangles are observed imported cases

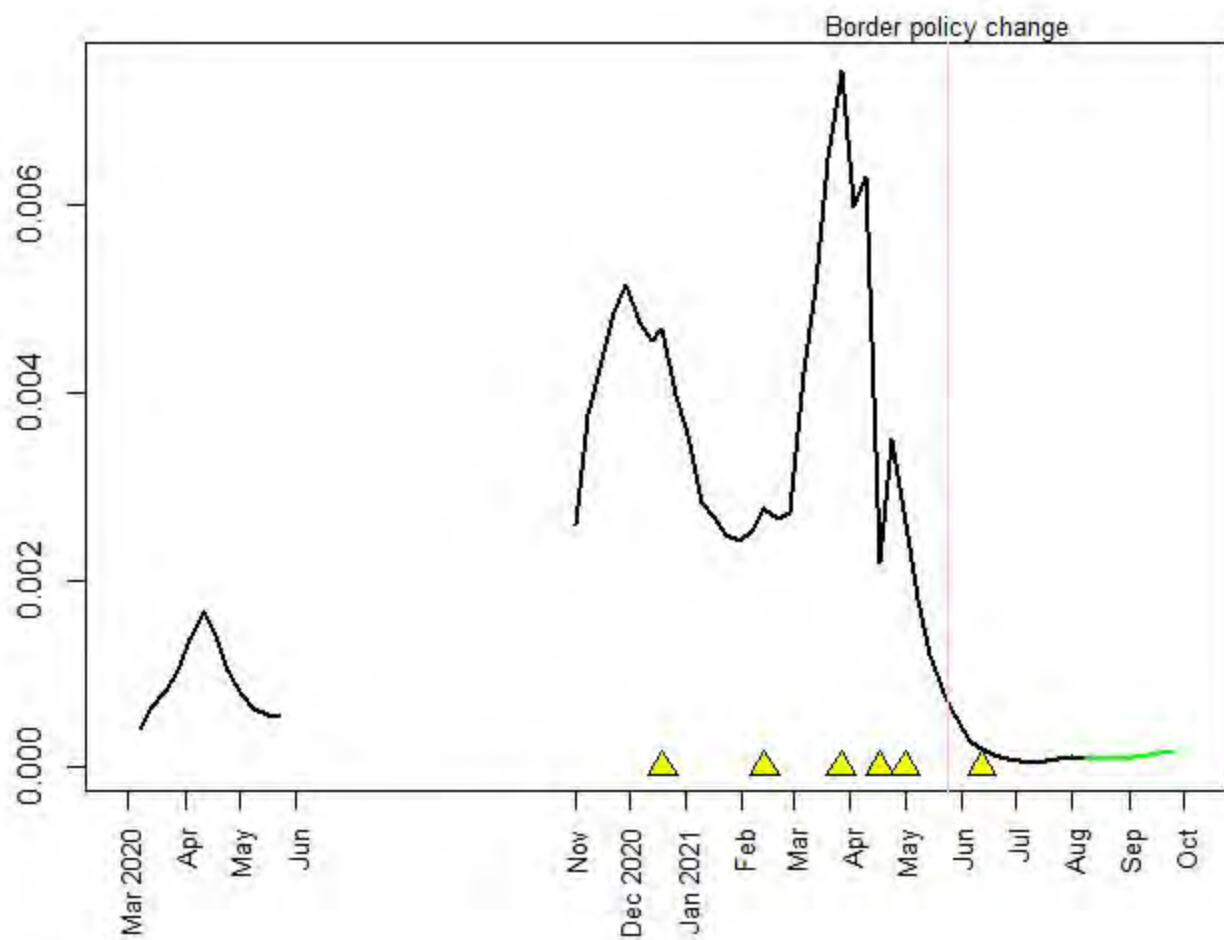


- Black line is the estimated historical trend
 - Green line is the predicted future trend
 - Yellow triangles are observed imported cases
-
- We tended to see imported cases during periods when it was more likely to see a case.
 - The triangles are only the cases we know about, and doesn't include asymptomatic infected, people that didn't get tested, false negative test results, etc
 - The most likely number is for a single week; we expect to see cases after enough time has passed between importation events even if it is unlikely a single, particular week has an event

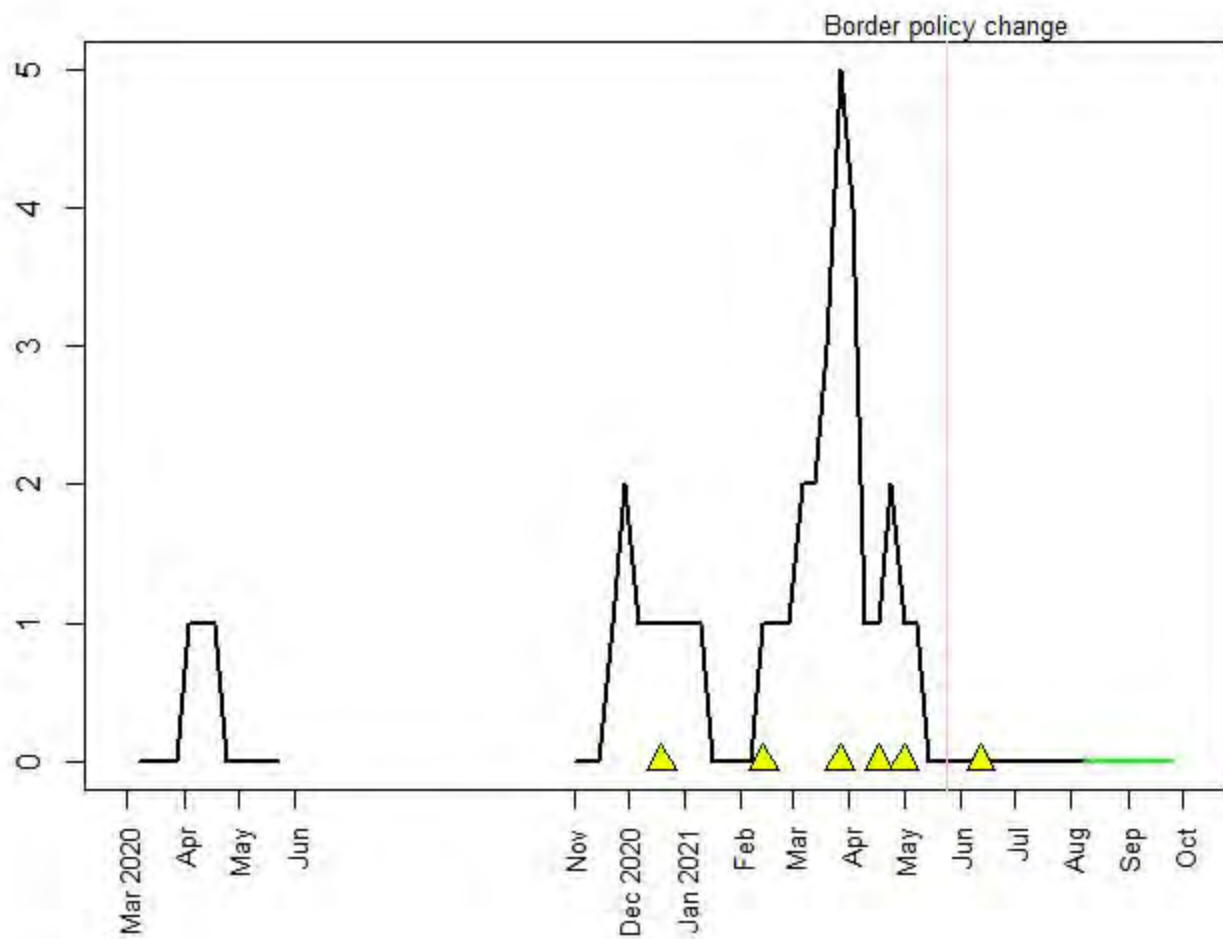
Assumptions

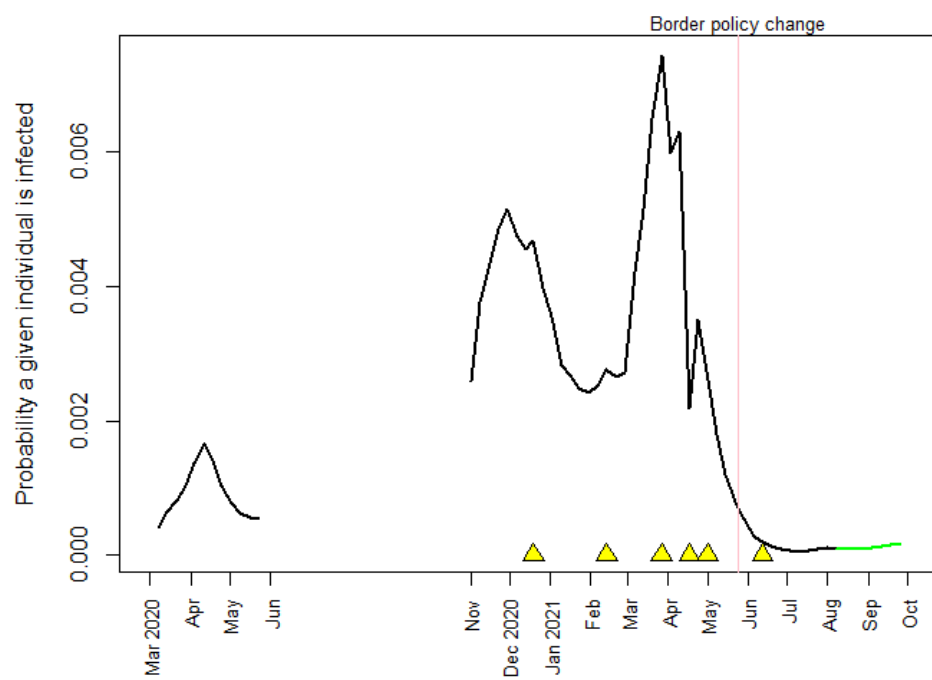
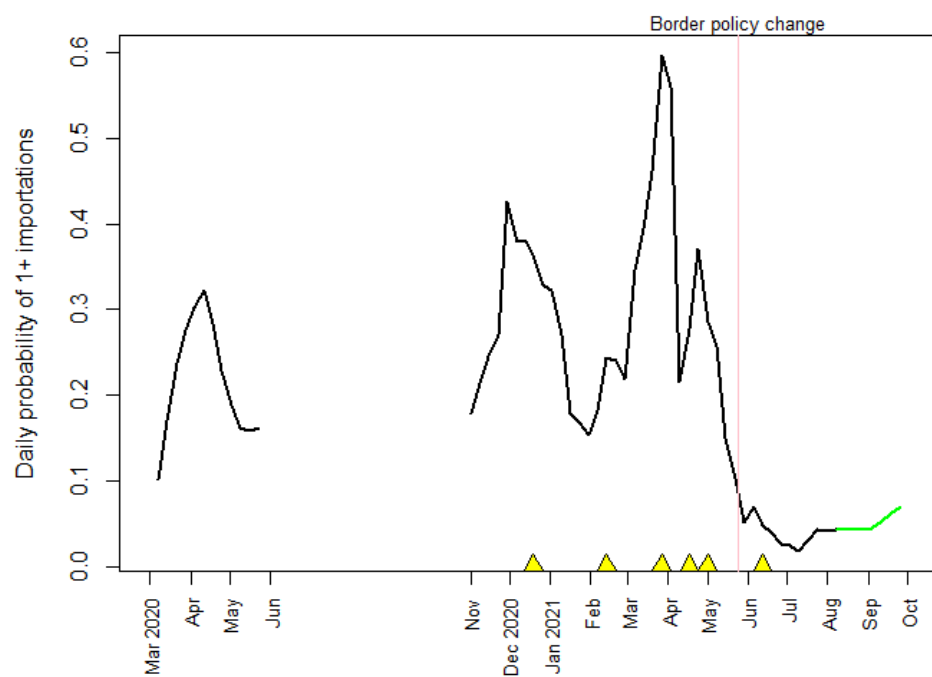
- Number of travelers based on border declaration form
- US travelers will make up 62% of travelers after Aug 4 (matching historic proportions for summer)
- Number of future Canadian and US travelers based on historical seasonal pattern (e.g., decrease of 20% between August and Sept)
- Historical prevalence is estimated from a separate model that accounts for unrelated cases
 - Canada: Prevalence is determined in each health management region separately, the results weighted by population, and reweighted by traveler origin
 - US: Prevalence is determined by county, and results weighted by population. We don't have traveler origin information for the US
- Future prevalence:
 - Canada prevalence is held constant until September, then linearly increases up to a 2-fold increase by Oct 1 (matching PHAC model results)
 - US prevalence increases linearly from now until Oct 1, up to a 3-fold increase
- Vaccination:
 - Proportion of travelers vaccinated based on vaccination rate of traveler residency (not trip origin)
 - Canada: <https://covid19tracker.ca/vaccinationtracker.html>
 - US: <https://www.mayoclinic.org/coronavirus-covid-19/vaccine-tracker>
 - Historical vaccine rates used until present; future vaccine rates held constant at current value (assumes no increase in vaccination between now and October)

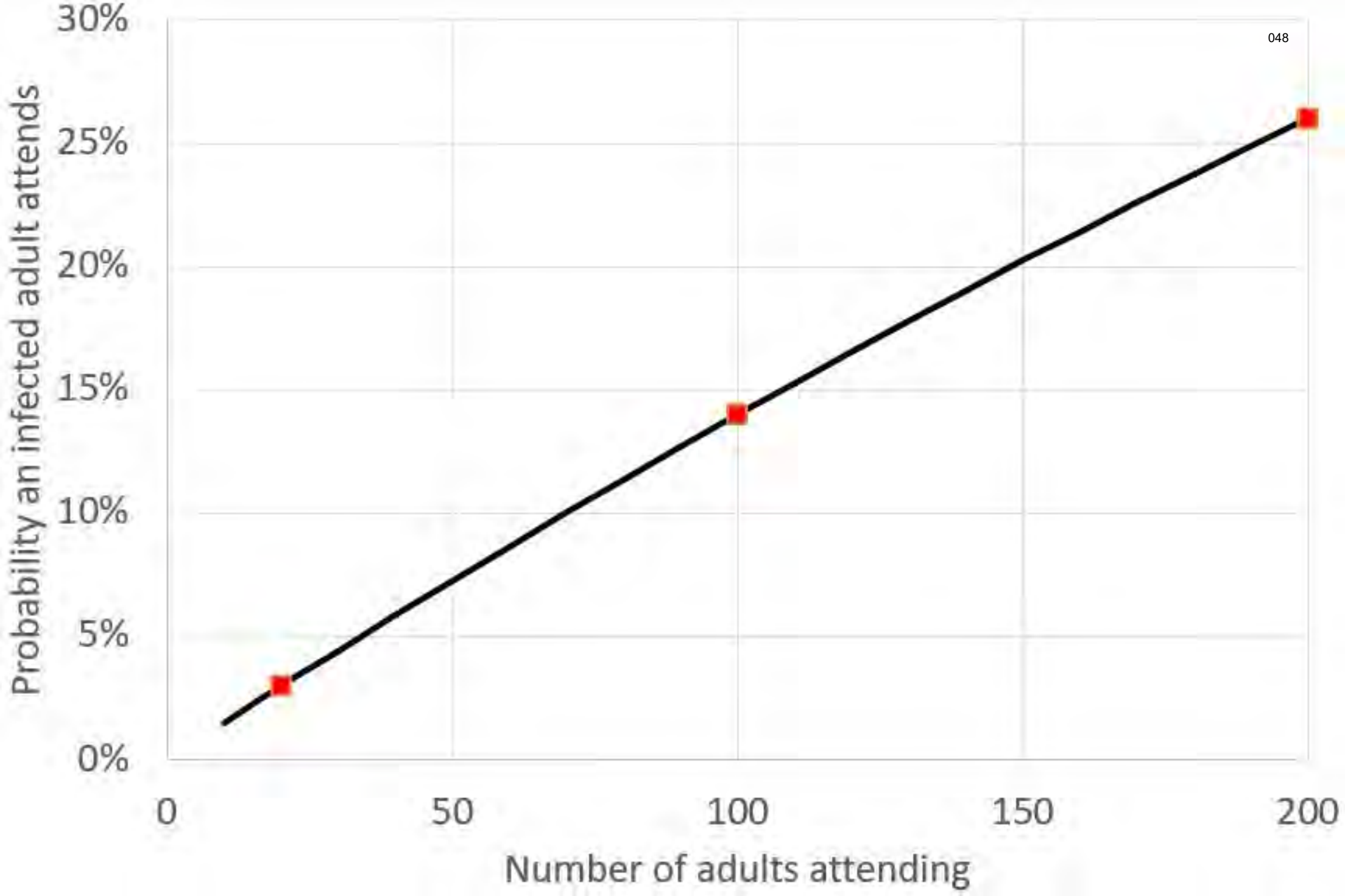
Probability a given individual is infected



Most likely number of weekly importations



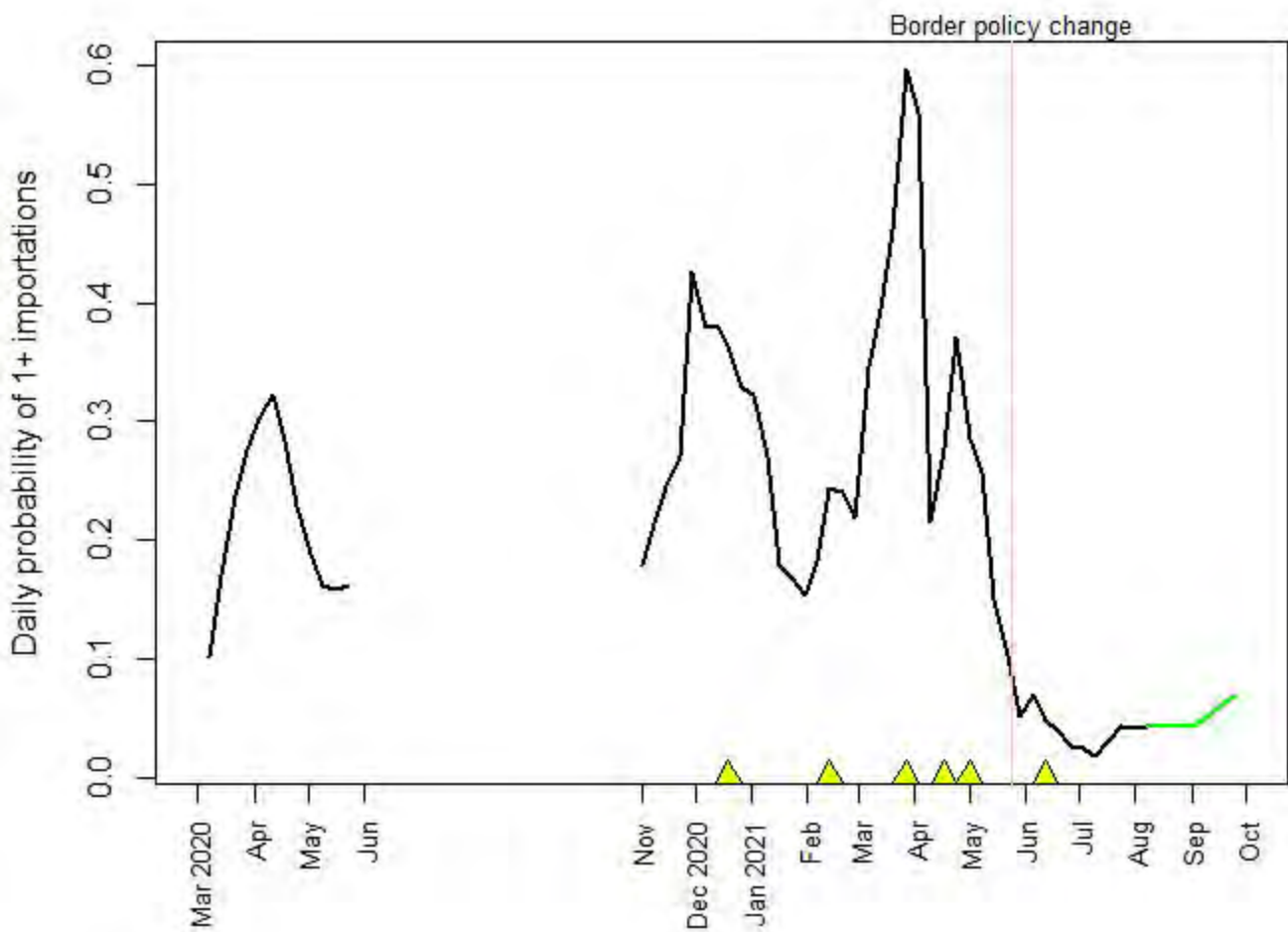




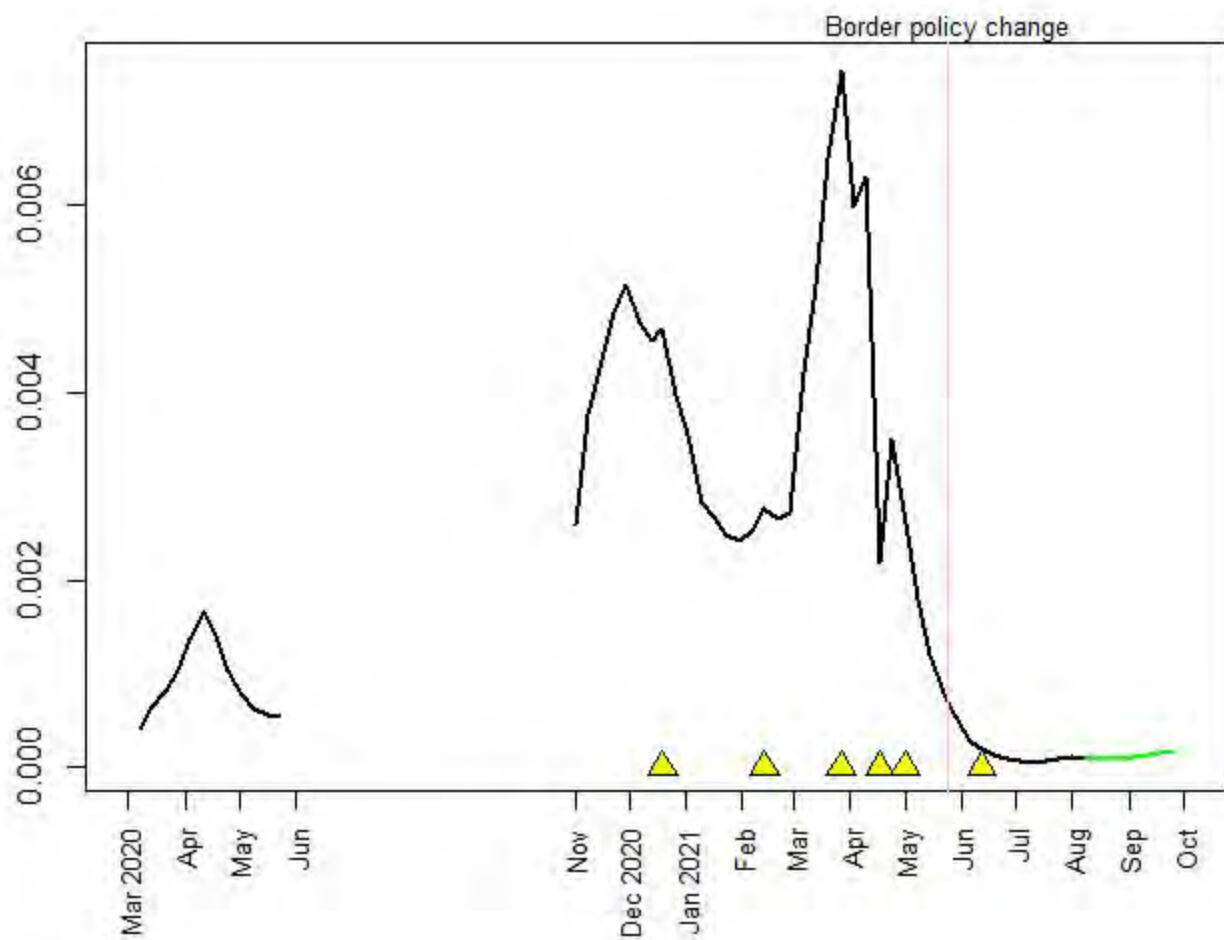
Probability of 1+ infected person attending gathering

Location	Prevalence						
		20 people		100 people		200 people	
		Adults only	Even mix	Adults only	Even mix	Adults only	Even mix
Whitehorse	0.2%	4%	2%	17%	10%	32%	18%
Watson Lake	1.9%	22%	58%	72%	99%	93%	100%
Carmacks	0.7%	13%	18%	53%	77%	83%	NA

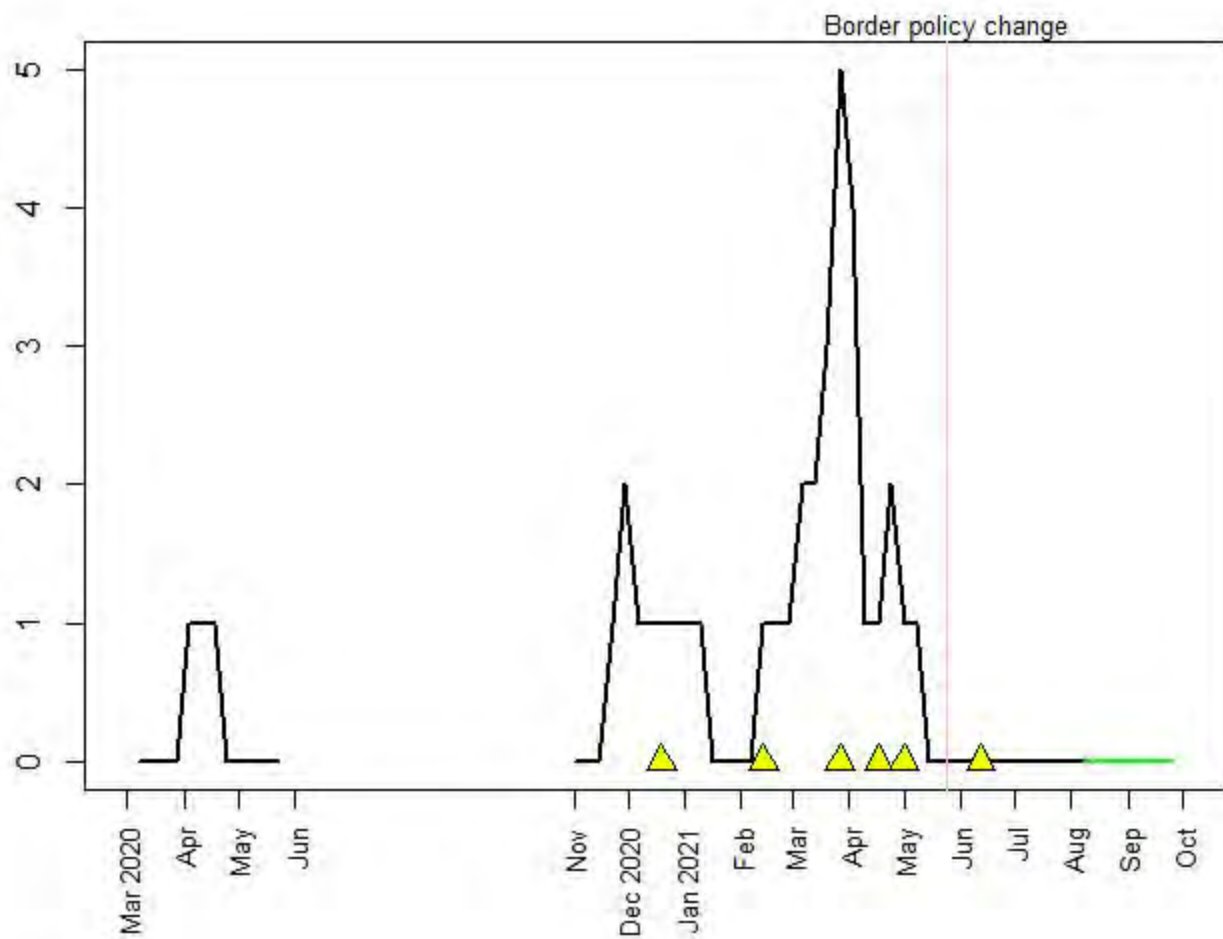
*Very high likelihoods are caused when the number of people attending an event is close to the total number of people in the population



Probability a given individual is infected



Most likely number of weekly importations



From: [Brian.Gaas](#)
To: [Iman.Gharraie](#)
Subject: Possible to request temporary traffic counter installation?
Date: Wednesday, July 28, 2021 1:00:48 PM

Hello again Iman:

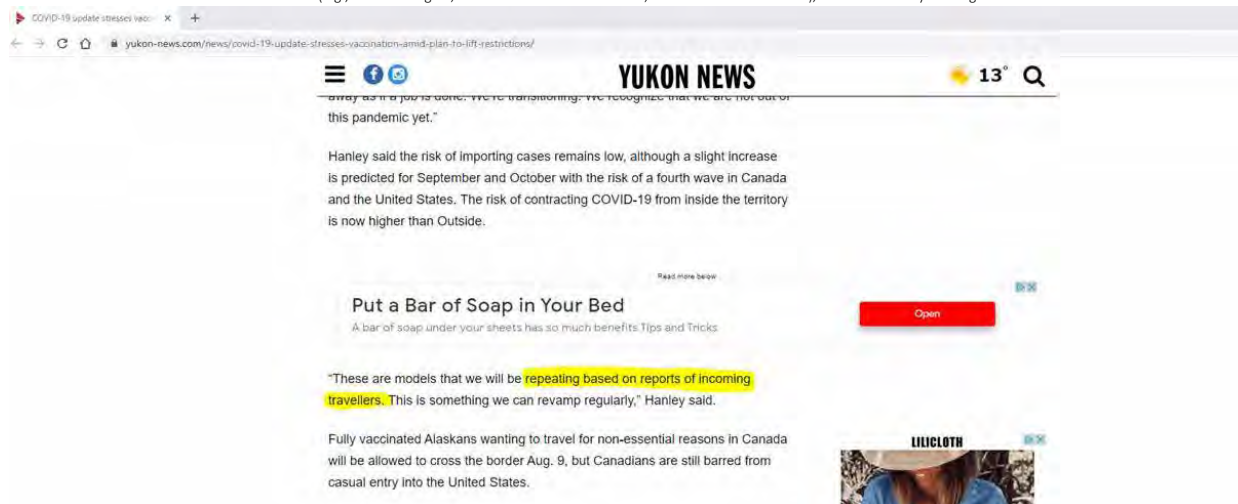
Come August 4th, Yukon is no longer going to be collecting information about border crossings. However, I expect I will still get questions about how many travelers we get, and there will still be an interest in understanding the risk of importing a Covid case. Both of those are going to be hard to do if/when our dataset is limited to customs, and whatever you can pull from the Watson Lake scales. This is not an official request, but I wanted to know 1) if it was possible, and 2) what the process might be to request temporary traffic counters be deployed at major border crossing so we could at least get a total number of vehicles entering Yukon. I think you have the ability to pull the scales data remotely and at will, though I assume that is not the case for temporary counters. Just trying to get ahead of a problem I expect to come in the following weeks...

Thanks!

~Brian

From: [Brian Cass](#)
 To: [Shannon Ryan](#)
 Subject: Not going to happen easily...
 Date: Thursday, July 29, 2021 10:56:51 AM

Below is a screenshot from a Yukon News article quoting Dr. Hanley's talk on Wednesday. I highlighted a specific quote to note that, since we aren't collecting border data after August 4, the uncertainty around our importation risks going forward is going to be huge. We won't know how many people are coming, much less where they are coming from. I can pull my usual magic of making some sort of estimate based on data we will have (e.g., Air North flights, traffic counter in Watson Lake, international border data), but it'll definitely be rough.



From: [Ng, Victoria \(PHAC/ASPC\)](#)
To: [Brian.Gaas](#)
Subject: RE: PHAC ABM: fall outbreak
Date: Thursday, July 29, 2021 12:30:22 PM
Attachments: [image001.png](#)
[image002.png](#)

*** External email: Do not click on links or attachments except from trusted senders. ***

That is great Brian, you have definitely fared much better than many of the other P/Ts! You're actually being lead by people making decision wisely that is based on science and common sense, bravo! ☺

V

From: Brian.Gaas@yukon.ca <Brian.Gaas@yukon.ca>

Sent: 2021-07-29 12:56 PM

To: Ng, Victoria (PHAC/ASPC) <victoria.ng@canada.ca>

Subject: RE: PHAC ABM: fall outbreak

That's great! Thanks a lot for the clarifications. Yeah, Yukon has been lucky to have a government that has pretty much deferred to the Medical Officer of Health (MOH) to determine what our pandemic response should be; there has actually been a place in the group for data, modeling, and the like to help inform decisions. We run into trouble when a recommendation comes and the government announces subsequent policy changes before the policies can actually get developed, but at least the recommendations tend to have a justification.

From: Ng, Victoria (PHAC/ASPC) <victoria.ng@canada.ca>

Sent: Wednesday, July 28, 2021 8:18 AM

To: Brian.Gaas <Brian.Gaas@yukon.ca>

Subject: RE: PHAC ABM: fall outbreak

*** External email: Do not click on links or attachments except from trusted senders. ***

Hi Brian,

Good to hear from you ☺ I've answered your questions below as I thought it might be easier to address them this way. Please let me know if you have any questions and hopefully my responses are helpful.

Cheers,

Vicky

From: [Brian.Gaas@yukon.ca](#) <Brian.Gaas@yukon.ca>

Sent: 2021-07-27 2:51 PM

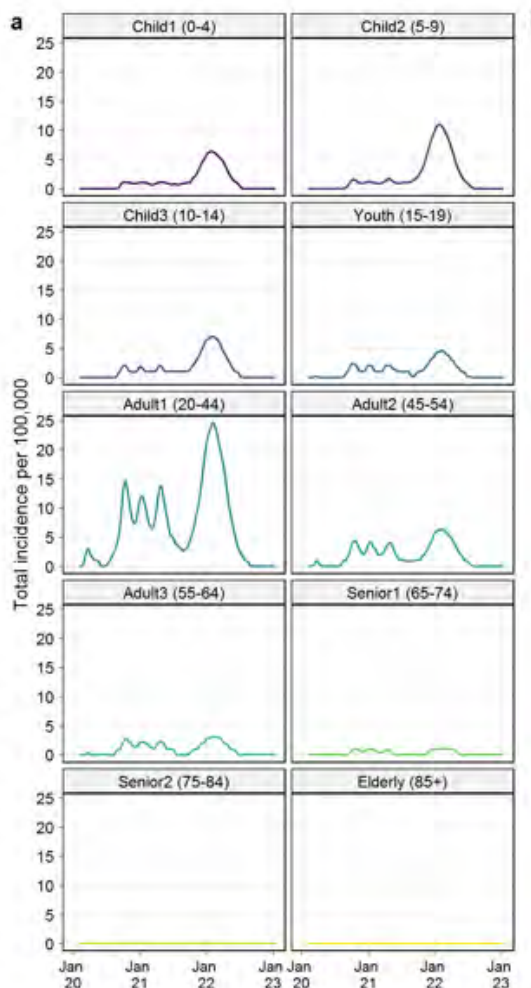
To: Ng, Victoria (PHAC/ASPC) <victoria.ng@canada.ca>

Subject: PHAC ABM: fall outbreak

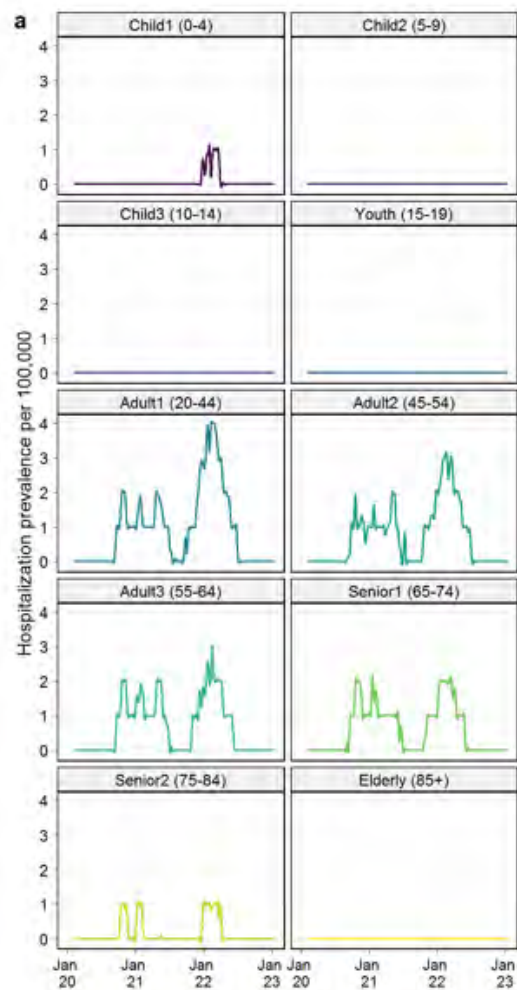
Hello Vicky!

The Monday external modeling meeting conflicts with my daily briefing now, so I'm missing a lot. However, if I remember the meeting conversation correctly from a couple weeks ago, there seemed to be consensus that Canada is potentially looking at another wave starting in fall, as reported in the modeling report. I think the conversation highlighted that it was due to the combination of the delta variant and spread through primarily unvaccinated demographics. Yes, this is exactly it. We didn't report this in the modelling report but in the ABM, we can track vaccination status of infected individuals and we are finding approximately 75% to 80% of individuals are unvaccinated during the delta-driven fall resurgence (this is dependent on our delta assumptions, particularly immune escape so subject to change if our delta assumptions are not accurate). That said, safe to say the majority of individuals in our delta-drive resurgence are made up of unvaccinated individuals. I also seem to remember that the introduction into schools (and hence unvaccinated children) was an important part of the process that eventually lead to it getting into vulnerable populations... which is pretty much what happened in Yukon. Yes, while we don't look into this explicitly via infections in schools per se, when we break down the age group of infected individuals during the delta-resurgence, we can see that the majority are in school-aged children who are not eligible to be

vaccinated (under 12) and in young adults (20 to 44) who are unwilling to vaccinate. So school-aged kids are definitely driving infections in schools, but the resurgence is also caused by young adults unwilling to vaccinate:



The modeling report didn't seem to go into that level of detail, so I was wondering if you could confirm that I have it right: if a 4th wave were to happen, then it is likely part of the process is transmission into schools and from there, into the general population with a focus on the vulnerable Yes, that's exactly it. And it is the vulnerable who end up being hospitalized even though they do not represent the majority of cases (comparison of the above figure with the figure below here), and this is caused by transmission in schools and young adults (I don't want to just lay the blame on schools alone, so your "part of the process" reference is correct:

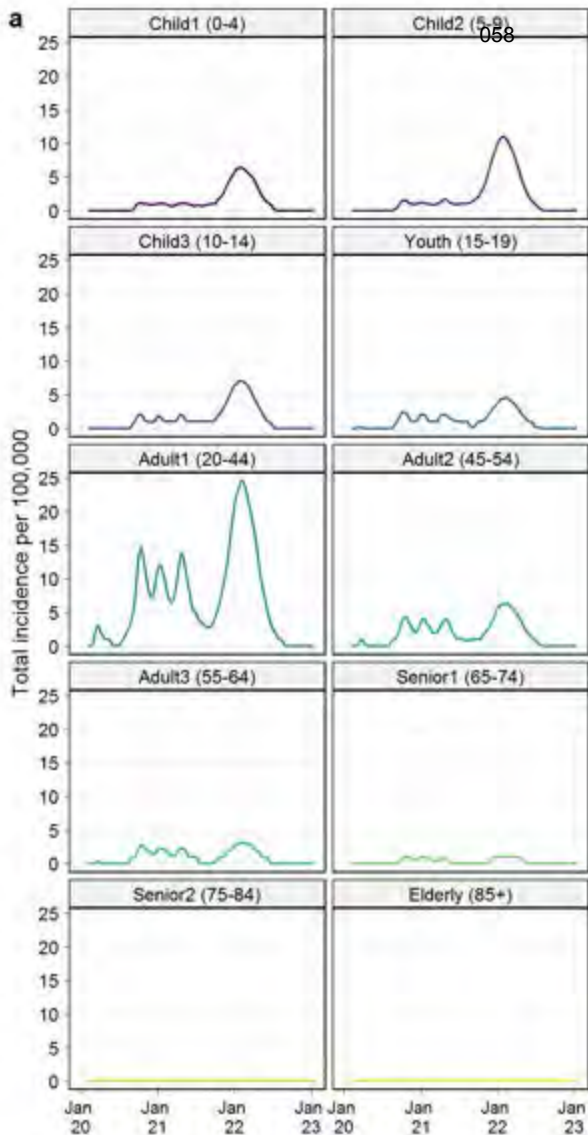


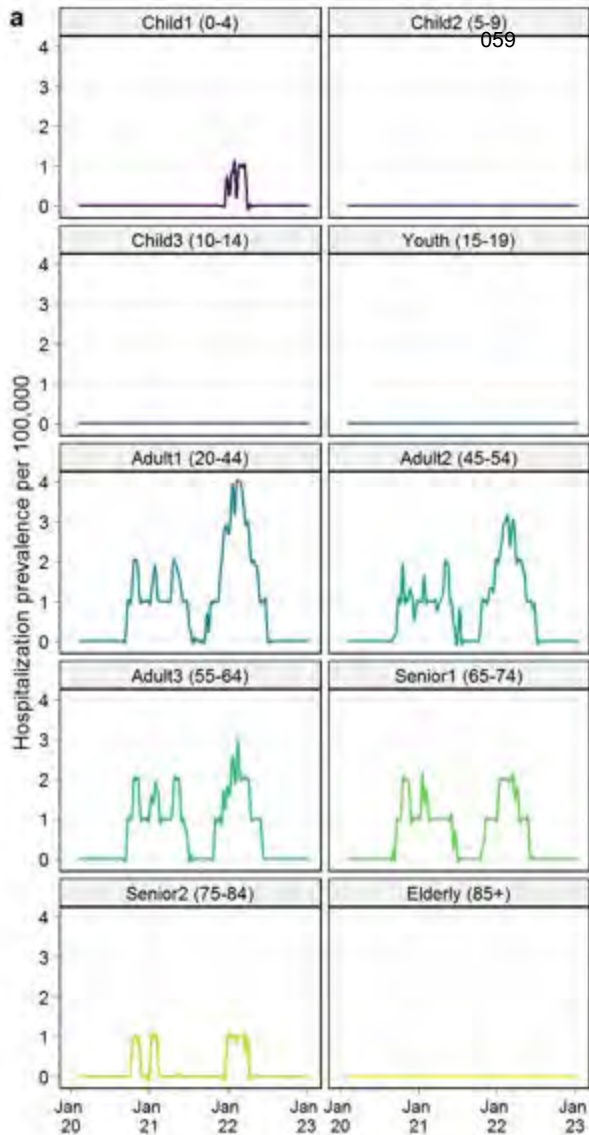
Yukon is putting together guidance for schools next year, and these results could play a part in the decision-making.

Really wonderful to see modelling play a part in decision-making ☺ Our modelling certainly does indicate that unvaccinated children and young adults will drive the delta-driven resurgence putting those at high risk in hospital.

Thanks!

~Brian

a



All travelers (based on current regional vaccine uptake rates)

Region	Unique traveling groups	Daily probability of at least 1	Most likely number imported infected (Daily)	Most likely number imported infected (Weekly)
AB	72	0.173%	0	0
BC	226	0.683%	0	0
MB	16	0.058%	0	0
NB	2	0.003%	0	0
NL	10	0.026%	0	0
NS	2	0.009%	0	0
NU	0	0.000%	0	0
NWT	4	0.000%	0	0
ON	22	0.416%	0	0
PEI	2	0.001%	0	0
QC	4	0.057%	0	0
SK	11	0.824%	0	0
Canada	366	2.231%	0	0

Days between importation events: 31

This scenario is equivalent to not having any travel restrictions

At current vaccination rates, Yukon needs 3100 travelers per day before we expect to see 1+ importation per week.

At current traveler volumes, the Canada-wide prevalence within the traveling population needs to be 0.3% to expect 1+ importations per week. [This is about 4.5% in the general population]
At current traveler volumes, the Canada-wide prevalence within the traveling population needs to be 3% to expect 10+ importations per week. [This is about 45% in the general population]

Fully vaccinated travelers and <12 unvaccinated travelers

Region	Unique traveling groups	Daily probability of at least 1	Most likely number imported infected (Daily)	Most likely number imported infected (Weekly)
AB	72	0.046%	0	0
BC	226	0.181%	0	0
MB	16	0.015%	0	0
NB	2	0.001%	0	0
NL	10	0.007%	0	0
NS	2	0.002%	0	0
NU	0	0.000%	0	0
NWT	4	0.000%	0	0
ON	22	0.110%	0	0
PEI	2	0.000%	0	0
QC	4	0.015%	0	0
SK	11	0.220%	0	0
Canada	366	0.597%	0	0

Days between importation events: 116

Fully vaccinated travelers only

Region	Unique traveling groups	Daily probability of at least 1	Most likely number imported infected (Daily)	Most likely number imported infected (Weekly)
AB	72	0.035%	0	0
BC	226	0.139%	0	0
MB	16	0.012%	0	0
NB	2	0.001%	0	0
NL	10	0.005%	0	0
NS	2	0.002%	0	0
NU	0	0.000%	0	0
NWT	4	0.000%	0	0
ON	22	0.085%	0	0
PEI	2	0.000%	0	0
QC	4	0.012%	0	0
SK	11	0.168%	0	0
Canada	366	0.458%	0	0

Days between importation events: 151

Allowing unvaccinated kids increases the probability of importation by 0.14% (30%)

Partially or fully vaccinated travelers only

Region	Unique traveling groups	Daily probability of at least 1	Most likely number imported infected (Daily)	Most likely number imported infected (Weekly)
AB	72	0.073%	0	0
BC	226	0.289%	0	0
MB	16	0.025%	0	0
NB	2	0.001%	0	0
NL	10	0.011%	0	0
NS	2	0.004%	0	0
NU	0	0.000%	0	0
NWT	4	0.000%	0	0
ON	22	0.176%	0	0
PEI	2	0.000%	0	0
QC	4	0.024%	0	0
SK	11	0.350%	0	0
Canada	366	0.950%	0	0

Days between importation events: 73

	British Columbia	Alberta	Saskatchewan	Manitoba	Ontario	Quebec	Northwest Territories	Nunavut	New Brunswick	Newfoundland/Labrador	Nova Scotia	Prince Edward Island	Unknown	USA	Other
12/19/2020	41	18	1	0	5	0		1	0	0	0	0	0	8	1
12/26/2020	24	12	3	0	3	1		2	0	0	0	0	0	7	0
1/2/2021	42	14	3	1	10	1		0	0	0	0	1	0	11	2
1/9/2021	31	22	1	1	8	5		2	0	0	0	0	0	16	3
1/16/2021	32	8	2	0	3	0		0	0	0	0	1	0	13	2
1/23/2021	38	8	3	1	3	0		0	0	0	0	0	0	10	1
1/30/2021	34	10	1	0	3	0		0	0	0	0	0	0	6	1
2/6/2021	44	8	2	1	1	0		1	0	0	0	0	0	8	3
2/13/2021	63	9	2	0	3	1		1	0	0	0	0	0	7	0
2/20/2021	50	15	3	0	4	3		0	0	0	1	0	0	7	1
2/27/2021	37	17	0	1	14	0		1	0	1	0	3	0	7	1
3/6/2021	60.5	13	1.5	0.5	1	1		1	0	0	0	1	0	16	1
3/13/2021	48	14	3	1	4	1		3	0	0	0	0	0	16	3
3/20/2021	49	14	2	1	6	1		1	0	0	0	0	0	20	2
3/27/2021	79.5	18	3.5	1	7	0	0.5	0	0	0	0	0	0	18.5	1
4/3/2021	25.5	64.5	1.5	1	2	0		1	0	0	14	1	0	1	15
4/10/2021	14	9	1	2	0	0		1	0	0	0	0	0	12	0
4/17/2021	78	25	5	2	6	3		3	1	0	2	1	0	46	3
4/24/2021	69	24	3	1	6	3		0	0	0	0	0	0	56	2
5/1/2021	64	21	5	3	7	1		5	0	0	0	1	0	74	2
5/8/2021	87	37	5	1	9	2		0	0	0	0	1	0	86	3
5/15/2021	66	27	8	0	4	1		1	0	0	0	1	0	62	4
5/22/2021	73	21	5	2	5	2		1	0	0	0	0	0	79	5
5/29/2021	43	23	5	3	0	2		0	0	0	0	1	0	58	2
6/5/2021	181	29	5	2	5.5	2.5		1	0	0.5	0.5	1	0	12	3
6/12/2021	139.5	46	9.5	1.5	7.5	3		1	0	0.5	0	1	0	19	3
6/19/2021	241	24	7	2	10	2.5		1	0	0	0.5	0	0	19	2
6/26/2021	158.5	53	6	1	18	2	3.5	0	0.5	0	0	0.5	0	13.5	4
7/3/2021	272.5	30.5	6.5	3	21.5	3	4.5	0	0	0	0	1	0	7.5	2
7/10/2021	268	72.5	12.5	2	27.5	6.5		5	0	0	0	0.5	0	11.5	5

	YT	BC	AB	SK	MB	ON	QC	NWT	NU	NB	NL	NS	PEI
12/19/2020	80%	11%	4%	1%	0%	2%	1%	1%	0%	0%	0%	0%	0%
12/26/2020	80%	11%	4%	1%	0%	2%	1%	1%	0%	0%	0%	0%	0%
1/2/2021	78.4%	11.5%	4.9%	0.9%	0.4%	2.2%	0.7%	0.8%	0.0%	0.1%	0.1%	0.2%	0.0%
1/9/2021	76.7%	12.3%	5.2%	1.0%	0.4%	2.4%	0.7%	0.8%	0.0%	0.1%	0.1%	0.2%	0.0%
1/16/2021	75.1%	13.2%	5.6%	1.0%	0.5%	2.5%	0.8%	0.9%	0.0%	0.1%	0.1%	0.2%	0.0%
1/23/2021	73.4%	14.1%	6.0%	1.1%	0.5%	2.7%	0.8%	0.9%	0.0%	0.1%	0.1%	0.2%	0.0%
1/30/2021	71.8%	15.0%	6.3%	1.2%	0.5%	2.9%	0.9%	1.0%	0.0%	0.1%	0.2%	0.2%	0.0%
2/6/2021	70.1%	15.8%	6.7%	1.3%	0.6%	3.0%	0.9%	1.0%	0.0%	0.1%	0.2%	0.2%	0.0%
2/13/2021	68.5%	16.7%	7.1%	1.3%	0.6%	3.2%	1.0%	1.1%	0.0%	0.1%	0.2%	0.2%	0.0%
2/20/2021	66.8%	17.6%	7.5%	1.4%	0.6%	3.4%	1.0%	1.2%	0.1%	0.1%	0.2%	0.2%	0.0%
2/27/2021	65.2%	18.4%	7.8%	1.5%	0.7%	3.5%	1.1%	1.2%	0.1%	0.1%	0.2%	0.3%	0.0%
3/6/2021	63.5%	19.3%	8.2%	1.5%	0.7%	3.7%	1.1%	1.3%	0.1%	0.1%	0.2%	0.3%	0.0%
3/13/2021	61.9%	20.2%	8.6%	1.6%	0.7%	3.9%	1.2%	1.3%	0.1%	0.1%	0.2%	0.3%	0.0%
3/20/2021	60.2%	21.1%	8.9%	1.7%	0.8%	4.0%	1.2%	1.4%	0.1%	0.1%	0.2%	0.3%	0.0%
3/27/2021	58.6%	21.9%	9.3%	1.7%	0.8%	4.2%	1.3%	1.4%	0.1%	0.1%	0.2%	0.3%	0.0%
4/3/2021	56.9%	22.8%	9.7%	1.8%	0.8%	4.4%	1.3%	1.5%	0.1%	0.1%	0.2%	0.3%	0.0%
4/10/2021	55.3%	23.7%	10.1%	1.9%	0.9%	4.5%	1.4%	1.6%	0.1%	0.2%	0.2%	0.3%	0.0%
4/17/2021	53.6%	24.6%	10.4%	1.9%	0.9%	4.7%	1.4%	1.6%	0.1%	0.2%	0.2%	0.3%	0.0%
4/24/2021	52.0%	25.4%	10.8%	2.0%	0.9%	4.9%	1.5%	1.7%	0.1%	0.2%	0.3%	0.4%	0.0%
5/1/2021	50.3%	26.3%	11.2%	2.1%	0.9%	5.0%	1.5%	1.7%	0.1%	0.2%	0.3%	0.4%	0.0%
5/8/2021	48.7%	27.2%	11.5%	2.2%	1.0%	5.2%	1.6%	1.8%	0.1%	0.2%	0.3%	0.4%	0.0%
5/15/2021	47.0%	28.0%	11.9%	2.2%	1.0%	5.4%	1.6%	1.8%	0.1%	0.2%	0.3%	0.4%	0.0%
5/22/2021	45.4%	28.9%	12.3%	2.3%	1.0%	5.5%	1.7%	1.9%	0.1%	0.2%	0.3%	0.4%	0.0%
5/29/2021	43.7%	29.8%	12.6%	2.4%	1.1%	5.7%	1.7%	2.0%	0.1%	0.2%	0.3%	0.4%	0.0%
6/5/2021	42.1%	30.7%	13.0%	2.4%	1.1%	5.9%	1.8%	2.0%	0.1%	0.2%	0.3%	0.4%	0.0%
6/12/2021	40.4%	31.5%	13.4%	2.5%	1.1%	6.0%	1.8%	2.1%	0.1%	0.2%	0.3%	0.4%	0.0%
6/19/2021	38.8%	32.4%	13.8%	2.6%	1.2%	6.2%	1.9%	2.1%	0.1%	0.2%	0.3%	0.5%	0.0%
6/26/2021	37.1%	33.3%	14.1%	2.6%	1.2%	6.4%	1.9%	2.2%	0.1%	0.2%	0.3%	0.5%	0.0%
7/3/2021	35.5%	34.2%	14.5%	2.7%	1.2%	6.5%	2.0%	2.2%	0.1%	0.2%	0.3%	0.5%	0.0%
7/10/2021	33.8%	35.0%	14.9%	2.8%	1.3%	6.7%	2.0%	2.3%	0.1%	0.2%	0.4%	0.5%	0.0%
	34%	35.0%	14.9%	2.8%	1.3%	6.7%	2.0%	2.3%	0.1%	0.2%	0.4%	0.5%	0.0%
		52.9%	22.5%	4.2%	1.9%	10.1%	3.0%	3.5%	0.2%	0.3%	0.5%	0.8%	0.0%

*Start with 80% Yukon and keep other proportions the same as now (relative to each other)

66%

	0.0%	0.2%	0.2%	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.2%	0.1%	0.0%	0.1%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	27.7%	35.4%	59.5%	44.0%	16.4%	32.0%	32.8%	37.9%	0.0%	31.8%	27.5%	9.7%	23.7%
	6.6%	33.9%	57.1%	63.1%	35.0%	46.3%	58.3%	9.3%	0.0%	27.7%	20.8%	22.9%	16.8%
	4.4%	76.2%	55.7%	76.1%	68.7%	74.3%	88.2%	5.0%	12.1%	56.4%	78.0%	59.9%	63.6%
	2.2%	80.2%	27.6%	63.7%	56.2%	69.4%	91.5%	6.5%	16.0%	79.8%	81.1%	66.7%	26.1%
4/24/2021													
	0.0%	0.4%	0.3%	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.2%	0.2%	0.0%	0.1%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.8%	16.1%	42.6%	36.3%	13.7%	22.0%	22.8%	6.6%	0.0%	16.0%	15.0%	9.3%	10.7%
	5.8%	49.7%	61.2%	71.6%	51.3%	59.3%	69.7%	8.4%	0.0%	37.8%	35.8%	46.7%	30.1%
	4.5%	82.5%	50.1%	78.3%	78.0%	78.3%	90.6%	5.0%	10.1%	72.9%	85.5%	76.0%	76.7%
	2.2%	81.3%	17.1%	64.8%	60.7%	70.1%	92.2%	5.9%	13.1%	78.3%	82.3%	69.2%	19.3%
5/1/2021													
	0.0%	0.4%	0.5%	0.3%	0.0%	0.3%	0.2%	0.0%	0.0%	0.2%	0.2%	0.1%	0.1%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.2%	20.1%	54.1%	42.2%	18.2%	27.3%	27.4%	6.1%	0.0%	17.6%	19.6%	14.1%	12.3%
	5.7%	64.2%	64.6%	74.5%	67.0%	68.4%	77.2%	8.3%	0.0%	48.5%	54.3%	62.8%	46.4%
	4.5%	85.2%	47.5%	79.4%	81.0%	80.8%	91.8%	5.2%	10.7%	78.4%	88.2%	81.1%	82.1%
	1.9%	82.0%	12.2%	65.2%	62.3%	70.8%	90.4%	5.7%	9.1%	76.9%	82.9%	69.8%	18.3%
5/8/2021													
	0.0%	0.5%	1.0%	0.4%	0.0%	0.5%	0.3%	4.2%	0.0%	0.3%	0.4%	0.1%	0.2%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.1%	27.4%	70.3%	45.7%	28.1%	32.9%	35.0%	5.5%	0.0%	22.2%	23.0%	19.3%	15.2%
	5.6%	73.9%	69.6%	76.8%	72.1%	73.8%	82.0%	7.8%	0.0%	62.0%	65.4%	74.2%	68.2%
	4.6%	86.5%	47.4%	80.5%	82.7%	82.4%	91.9%	5.4%	10.4%	83.1%	90.5%	84.2%	83.7%
	1.7%	81.9%	11.5%	64.9%	63.4%	71.3%	88.2%	5.9%	9.1%	76.4%	83.9%	70.9%	17.7%
5/15/2021													
	0.0%	0.8%	4.5%	0.6%	0.1%	0.9%	0.4%	12.6%	0.0%	0.4%	1.0%	0.2%	0.4%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3.0%	35.4%	78.7%	47.6%	33.6%	37.9%	40.4%	5.3%	0.0%	31.0%	29.3%	36.6%	24.0%
	5.3%	77.7%	72.0%	78.3%	75.1%	77.2%	82.9%	7.6%	0.0%	71.3%	75.3%	80.6%	79.4%
	4.3%	87.0%	47.9%	81.2%	84.3%	83.6%	90.3%	5.0%	8.8%	84.7%	91.6%	87.4%	85.1%
	1.7%	80.1%	11.8%	64.6%	64.2%	71.8%	82.6%	6.1%	8.5%	75.9%	84.4%	72.1%	17.3%
5/22/2021													
	0.0%	3.5%	4.5%	5.3%	2.0%	3.3%	0.8%	15.9%	0.0%	1.0%	4.1%	0.3%	1.4%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	2.8%	38.3%	78.8%	48.3%	35.9%	41.6%	43.9%	5.1%	0.0%	39.2%	37.1%	47.5%	32.6%
	5.3%	79.0%	72.1%	78.6%	76.7%	78.7%	83.7%	7.4%	0.0%	75.6%	79.5%	83.1%	82.4%
	3.7%	87.4%	47.9%	80.5%	85.1%	84.1%	89.1%	4.7%	6.4%	85.5%	92.1%	88.9%	85.7%
	1.0%	79.5%	11.8%	54.3%	64.6%	71.9%	74.9%	5.7%	7.4%	75.0%	83.8%	72.9%	13.2%
5/29/2021													
	0.0%	11.0%	14.9%	10.9%	6.3%	8.1%	3.8%	21.4%	0.0%	3.3%	7.4%	1.0%	3.2%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	2.7%	39.3%	87.1%	48.6%	36.7%	43.5%	45.6%	4.7%	0.0%	41.9%	43.7%	49.9%	37.5%
	4.7%	79.6%	72.2%	78.3%	76.3%	77.8%	83.5%	6.9%	0.0%	77.3%	82.0%	84.8%	83.5%
	3.3%	86.9%	45.2%	71.3%	82.8%	84.1%	86.3%	4.6%	4.4%	85.5%	92.6%	90.0%	86.1%
	0.8%	78.0%	11.6%	29.6%	60.6%	71.6%	67.3%	5.7%	7.4%	73.5%	83.1%	74.3%	11.8%
6/5/2021													
	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	42.9%	52.9%	40.0%	33.7%	36.6%	31.7%	48.4%	0.0%	37.1%	31.0%	13.8%	15.8%
	2.5%	38.9%	85.8%	47.1%	35.3%	44.1%	45.8%	4.3%	11.0%	43.7%	47.2%	50.5%	40.6%
	4.3%	77.7%	60.3%	66.4%	70.8%	75.9%	82.2%	7.8%	10.9%	78.4%	83.3%	85.4%	84.6%
	3.0%	80.0%	34.8%	37.3%	75.6%	80.0%	80.7%	8.0%	7.6%	85.8%	91.4%	91.5%	85.4%
	1.4%	67.3%	10.4%	16.2%	53.9%	55.2%	62.1%	9.0%	7.4%	73.9%	79.8%	75.0%	11.7%
6/12/2021													
	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	53.1%	55.9%	49.3%	45.3%	48.1%	58.3%	30.5%	0.0%	54.3%	42.8%	34.1%	32.5%
	2.3%	36.1%	77.5%	41.8%	33.7%	42.2%	45.1%	3.3%	11.6%	42.4%	48.4%	51.2%	41.8%
	4.0%	69.6%	44.3%	38.9%	65.8%	66.7%	75.0%	5.7%	11.5%	75.5%	82.9%	84.9%	84.0%
	2.7%	60.7%	22.3%	19.8%	64.9%	62.0%	64.0%	5.7%	8.5%	80.2%	86.1%	89.8%	82.8%

	1.7%	47.4%	8.5%	10.8%	34.8%	40.2%	47.5%	7.6%	9.7%	60.7%	73.0%	70.4%	11.5%
6/19/2021	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	57.4%	55.4%	55.2%	48.9%	54.6%	69.9%	26.1%	26.5%	58.5%	57.8%	63.8%	58.4%
	2.3%	33.5%	59.9%	28.8%	30.2%	37.0%	40.7%	3.1%	11.9%	38.4%	47.5%	52.7%	41.9%
	3.7%	60.7%	30.8%	25.2%	53.5%	53.5%	60.0%	5.7%	11.0%	63.1%	79.5%	76.2%	82.4%
	2.4%	42.2%	14.2%	13.3%	43.7%	43.7%	48.4%	5.4%	8.3%	62.7%	76.1%	78.9%	78.2%
	1.1%	32.2%	6.8%	8.7%	21.6%	29.2%	37.1%	7.2%	9.7%	42.9%	65.6%	58.8%	11.1%
6/26/2021	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	47.4%	61.7%	53.6%	52.6%	47.9%	56.4%	71.6%	22.7%	44.5%	60.7%	66.4%	68.7%	68.6%
	2.4%	28.3%	49.9%	16.5%	22.3%	29.3%	36.1%	3.2%	12.0%	32.5%	44.6%	45.1%	40.7%
	4.0%	43.8%	24.4%	14.2%	36.8%	40.1%	44.0%	5.7%	10.8%	47.3%	69.5%	57.7%	77.5%
	2.6%	24.0%	10.7%	8.9%	23.6%	29.1%	29.7%	5.5%	7.4%	40.9%	61.0%	52.3%	45.9%
	1.8%	18.6%	5.7%	6.9%	15.1%	20.5%	21.5%	7.0%	9.7%	28.6%	55.3%	40.4%	7.7%
7/3/2021	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%
	33.9%	64.1%	39.2%	43.7%	42.9%	53.3%	72.1%	20.0%	48.2%	58.1%	70.1%	69.2%	71.4%
	2.5%	22.8%	30.9%	11.6%	15.1%	21.5%	28.5%	3.1%	11.3%	24.9%	41.4%	33.2%	39.0%
	4.0%	28.5%	16.7%	10.6%	22.0%	27.5%	28.6%	5.5%	11.1%	34.2%	59.7%	36.6%	65.6%
	2.7%	13.9%	6.2%	7.0%	12.4%	18.7%	19.1%	5.3%	7.4%	27.0%	46.3%	33.3%	20.4%
	2.0%	11.7%	4.0%	6.0%	10.0%	14.4%	14.8%	6.8%	9.7%	21.2%	44.0%	30.9%	7.0%
7/10/2021	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%
	18.8%	65.3%	31.9%	34.8%	35.0%	44.6%	70.7%	17.2%	44.9%	47.0%	68.5%	66.6%	74.1%
	2.4%	15.7%	24.0%	8.6%	10.9%	14.9%	20.0%	3.0%	10.7%	18.0%	36.4%	19.8%	34.1%
	3.9%	15.7%	15.0%	8.2%	12.1%	18.3%	19.7%	5.1%	10.9%	24.0%	50.9%	24.9%	39.9%
	2.9%	8.5%	4.8%	5.8%	8.5%	13.3%	13.2%	5.0%	7.3%	18.7%	37.0%	25.3%	10.6%
	1.7%	8.3%	3.3%	5.4%	7.4%	10.1%	10.0%	6.7%	8.5%	16.0%	31.4%	21.1%	5.5%

	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	97.4%	4.1%	17.7%	10.3%	13.3%	5.4%	1.2%	94.7%	0.0%	7.6%	4.7%	9.2%	8.7%
	73.4%	1.6%	3.1%	3.5%	5.7%	2.4%	0.3%	76.0%	0.0%	1.8%	0.8%	2.9%	3.4%
	91.0%	1.5%	25.1%	6.6%	6.1%	2.7%	0.2%	89.9%	76.4%	1.5%	1.2%	2.1%	5.3%
	89.2%	7.8%	57.1%	24.3%	30.5%	15.0%	0.6%	95.3%	74.6%	4.6%	5.4%	14.3%	68.6%
4/24/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	28.7%	1.3%	4.4%	3.1%	4.0%	1.7%	0.6%	29.9%	0.0%	2.6%	1.2%	3.1%	2.8%
	75.2%	1.7%	3.4%	3.6%	5.9%	2.5%	0.5%	77.7%	0.0%	2.5%	0.8%	3.3%	3.5%
	92.1%	1.5%	32.2%	6.7%	6.4%	2.9%	0.5%	90.1%	81.3%	2.6%	1.3%	2.6%	5.7%
	89.9%	7.8%	68.3%	24.4%	31.2%	15.4%	1.4%	95.8%	77.5%	8.3%	5.6%	15.6%	76.8%
5/1/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	29.7%	1.3%	4.6%	3.2%	4.1%	1.8%	1.1%	30.8%	0.0%	2.9%	1.3%	3.2%	2.9%
	76.3%	1.7%	3.9%	3.7%	6.1%	2.7%	1.0%	78.6%	0.0%	3.0%	0.8%	3.5%	3.7%
	92.9%	1.5%	36.2%	6.8%	6.6%	3.2%	1.1%	90.4%	82.6%	3.2%	1.3%	3.0%	5.9%
	91.1%	8.0%	74.0%	24.6%	31.4%	15.7%	4.2%	96.2%	81.5%	10.9%	5.6%	16.8%	78.6%
5/8/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	30.2%	1.5%	5.0%	3.4%	4.3%	1.9%	1.8%	32.0%	0.0%	3.2%	1.3%	3.3%	3.0%
	77.2%	2.0%	4.9%	3.9%	6.3%	2.9%	1.6%	79.7%	0.0%	3.5%	0.8%	3.7%	3.8%
	93.7%	1.8%	37.9%	7.1%	6.7%	3.5%	1.8%	91.0%	83.7%	3.7%	1.3%	3.2%	6.2%
	91.7%	8.9%	75.5%	25.6%	31.6%	16.1%	7.2%	96.6%	83.2%	12.5%	5.6%	17.5%	79.9%
5/15/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	30.7%	1.8%	5.4%	3.6%	4.6%	2.1%	3.7%	32.4%	0.0%	3.5%	1.3%	3.4%	3.4%
	78.3%	2.5%	5.6%	4.2%	6.6%	3.3%	3.9%	80.5%	0.0%	4.1%	0.9%	3.9%	4.1%
	94.7%	2.4%	38.7%	7.4%	6.9%	3.9%	4.2%	91.6%	85.4%	4.2%	1.3%	3.3%	6.4%
	91.8%	11.4%	75.9%	26.6%	31.8%	16.4%	13.5%	96.8%	83.7%	13.9%	5.6%	18.3%	81.1%
5/22/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	31.3%	2.0%	5.4%	3.9%	5.0%	2.8%	4.3%	32.9%	0.0%	3.9%	1.3%	3.7%	3.5%
	79.0%	2.9%	5.6%	4.8%	7.1%	4.2%	4.7%	81.2%	0.0%	4.7%	1.0%	4.2%	4.3%
	95.4%	2.7%	38.7%	8.7%	7.4%	4.5%	6.1%	92.1%	88.2%	4.8%	1.5%	3.5%	6.8%
	92.2%	12.6%	75.9%	37.5%	32.3%	16.9%	21.9%	97.2%	84.9%	15.3%	6.8%	18.4%	85.8%
5/29/2021													
	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	31.6%	2.4%	7.7%	4.4%	6.1%	3.7%	4.8%	33.5%	0.0%	4.2%	1.5%	3.8%	4.1%
	80.0%	3.5%	9.4%	5.7%	9.4%	6.7%	6.0%	82.0%	0.0%	5.4%	1.1%	4.4%	5.0%
	96.7%	3.8%	42.9%	18.4%	10.7%	5.3%	9.4%	92.5%	90.5%	5.6%	1.8%	3.6%	7.3%
	92.5%	14.6%	77.0%	63.5%	37.0%	17.7%	30.2%	97.4%	84.9%	17.4%	8.1%	19.0%	87.6%
6/5/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.1%	0.5%	0.2%	0.1%	0.4%	1.1%	2.5%	0.0%	0.6%	0.0%	0.1%	0.1%
	32.0%	3.7%	12.0%	5.4%	8.4%	4.9%	6.3%	31.0%	70.2%	4.9%	2.0%	3.9%	4.5%
	80.8%	6.2%	22.5%	16.9%	15.8%	9.8%	8.3%	77.6%	89.2%	6.4%	1.7%	4.6%	5.5%
	96.9%	11.4%	54.0%	52.8%	18.8%	9.9%	15.7%	90.4%	89.5%	6.9%	3.4%	3.8%	8.8%
	91.4%	25.9%	78.6%	76.9%	44.3%	35.1%	36.0%	96.0%	85.5%	19.7%	12.1%	19.9%	88.4%
6/12/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.2%	1.5%	0.3%	0.6%	0.7%	2.4%	28.3%	0.0%	0.8%	0.1%	0.1%	0.2%
	32.4%	7.1%	22.3%	11.0%	11.0%	8.0%	7.8%	32.5%	71.3%	7.7%	3.4%	4.2%	5.5%
	81.7%	15.0%	39.5%	45.3%	21.8%	19.9%	16.1%	80.8%	90.2%	10.6%	4.1%	5.8%	7.4%
	97.5%	31.2%	67.1%	71.2%	30.2%	28.7%	32.8%	93.1%	89.6%	13.1%	9.6%	4.5%	12.0%

	92.4%	46.4%	80.8%	82.8%	64.0%	51.0%	51.1%	97.6%	85.5%	33.8%	19.7%	23.5%	89.0%
6/19/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.4%	3.8%	0.9%	1.8%	2.1%	3.1%	35.4%	0.0%	0.9%	0.3%	0.1%	0.2%
	32.9%	10.1%	41.4%	24.7%	15.3%	13.8%	12.6%	33.1%	72.8%	12.4%	6.2%	5.2%	6.7%
	83.1%	24.4%	54.0%	59.8%	35.1%	33.7%	31.5%	81.9%	91.8%	23.7%	9.3%	12.6%	10.0%
	98.4%	50.2%	75.9%	78.4%	52.3%	47.6%	48.8%	94.1%	90.4%	30.8%	20.5%	15.7%	17.4%
	93.0%	62.0%	82.8%	85.2%	77.6%	62.7%	61.8%	98.6%	85.5%	52.0%	27.8%	35.9%	89.6%
6/26/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	20.5%	0.6%	6.3%	5.4%	5.6%	5.0%	3.4%	40.9%	0.0%	1.8%	0.6%	0.2%	0.3%
	33.3%	15.9%	52.2%	37.6%	24.0%	22.3%	17.6%	33.3%	74.3%	19.5%	10.4%	11.4%	9.1%
	83.6%	42.2%	60.9%	71.7%	52.8%	47.7%	47.9%	82.1%	93.7%	40.8%	20.3%	33.3%	16.1%
	99.6%	69.0%	79.7%	83.4%	73.2%	62.3%	67.7%	94.6%	91.5%	52.9%	36.0%	42.1%	50.3%
	93.0%	76.3%	84.1%	87.4%	84.7%	70.3%	77.0%	98.8%	86.0%	63.9%	38.7%	55.6%	93.2%
7/3/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	36.2%	1.0%	22.2%	15.7%	13.4%	10.8%	4.1%	44.9%	0.0%	6.4%	1.7%	1.0%	0.5%
	33.6%	21.8%	72.6%	43.0%	32.1%	30.5%	25.5%	33.6%	75.8%	27.5%	14.0%	22.9%	11.6%
	84.2%	58.1%	71.3%	75.8%	68.8%	60.9%	63.6%	82.6%	94.9%	54.4%	30.3%	55.2%	28.8%
	100.1%	79.7%	84.6%	85.5%	85.2%	73.0%	78.6%	95.0%	92.0%	67.2%	51.6%	62.6%	76.4%
	93.1%	83.7%	86.0%	88.4%	90.3%	76.6%	84.1%	99.0%	86.6%	71.6%	55.2%	65.9%	95.5%
7/10/2021													
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	54.6%	2.1%	30.3%	26.2%	23.9%	21.5%	6.4%	49.0%	9.4%	19.5%	4.3%	4.8%	0.9%
	33.9%	29.3%	80.4%	46.4%	37.0%	37.6%	34.3%	33.8%	77.1%	35.1%	20.7%	37.2%	17.1%
	84.7%	71.4%	74.9%	78.6%	79.6%	70.6%	72.8%	83.1%	95.8%	65.4%	46.8%	68.1%	55.5%
	100.3%	85.5%	86.1%	87.0%	89.8%	78.8%	84.8%	95.5%	93.0%	76.0%	67.6%	71.4%	87.2%
	93.5%	87.5%	86.8%	89.2%	93.4%	81.1%	89.2%	99.2%	87.7%	77.1%	71.6%	76.4%	96.9%