Covid-19 Modelling Results, as at 1 May 2020

CANADA

1. **Total Cases**

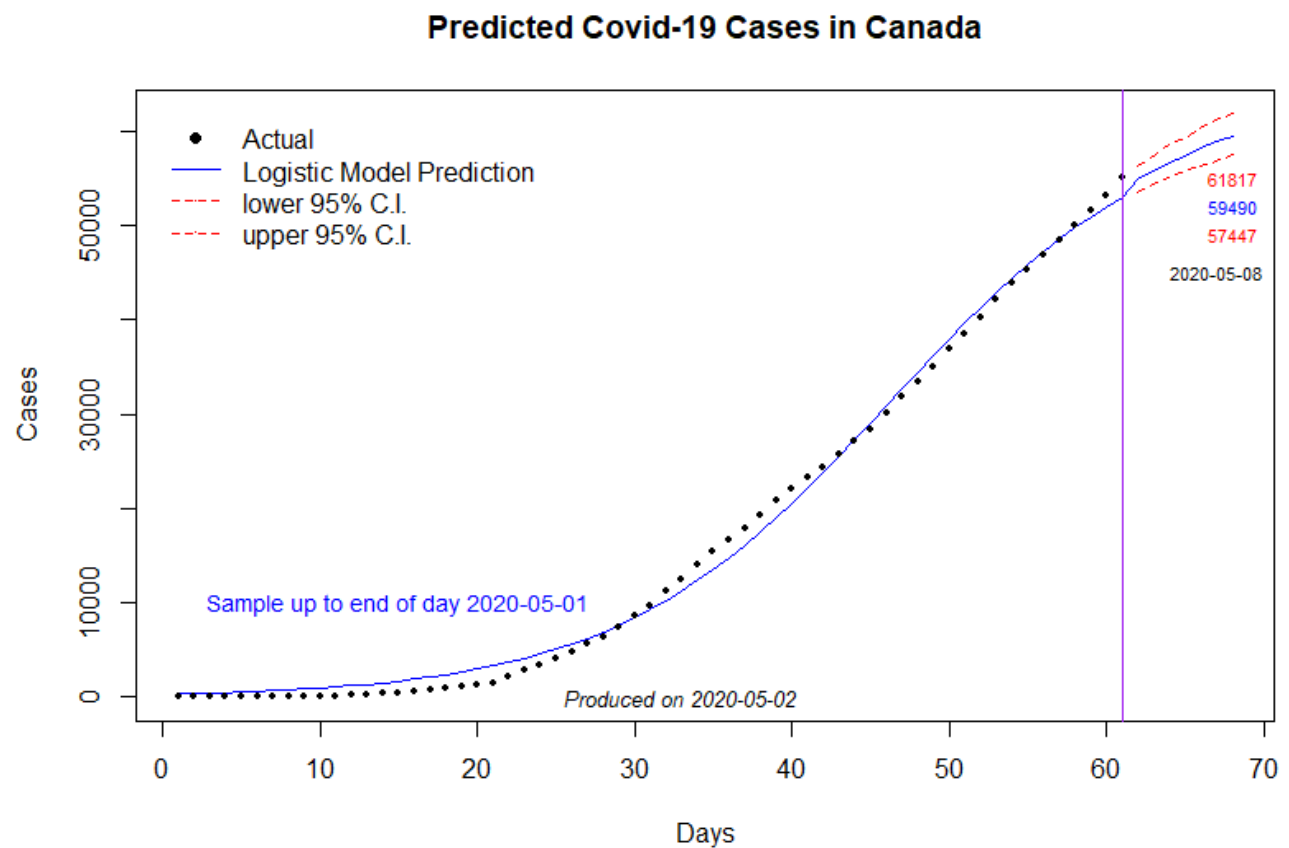### Predicted Covid-19 Cases in Canada

Table 1: Projected Covid-19 Cases in Canada

(95% Prediction Intervals are in Red; Actual Values are in Brackets)

Sample end (projection made): 28 April

29 Apr	30 Apr	1 May	2 May	3 May	4 May	5 May
49082	49786	50604	51204	51718	52495	52839
50203	**51163**	**52043**	**52889**	**53612**	**54327**	**54929**
[51597]	[53236]	[55061]				
51508	52654	53635	54742	55686	56316	57203

Sample end (projection made): 29 April

30 Apr	1 May	2 May	3 May	4 May	5 May	6 May
50433	51228	52120	52753	53385	54004	54418
51764	**52655**	**53600**	**54392**	**55087**	**55827**	**56433**
[53236]	[55061]					
53162	54146	55316	56154	57128	57883	58588

Sample end (projection made): 30 April

1 May	2 May	3 May	4 May	5 May	6 May	7 May
52011	52815	53481	54273	54881	55431	56027
53290	**54207**	**55078**	**55912**	**56604**	**57314**	**57939**
[55061]						
54576	55671	56702	57723	58546	59546	60158

Sample end (projection made): 1 May

2 May	3 May	4 May	5 May	6 May	7 May	8 May
53507	54330	55089	55713	56283	56870	57447
54896	**55812**	**56712**	**57429**	**58186**	**58914**	**59490**
56294	57384	58499	59221	60303	61177	61817

Note: Prediction intervals are based on 1,000 bootstrap replications. The point predictions are the mean of the bootstrap sample for each day, *so these differ from the simple extrapolation from the estimated Logistic curve.*
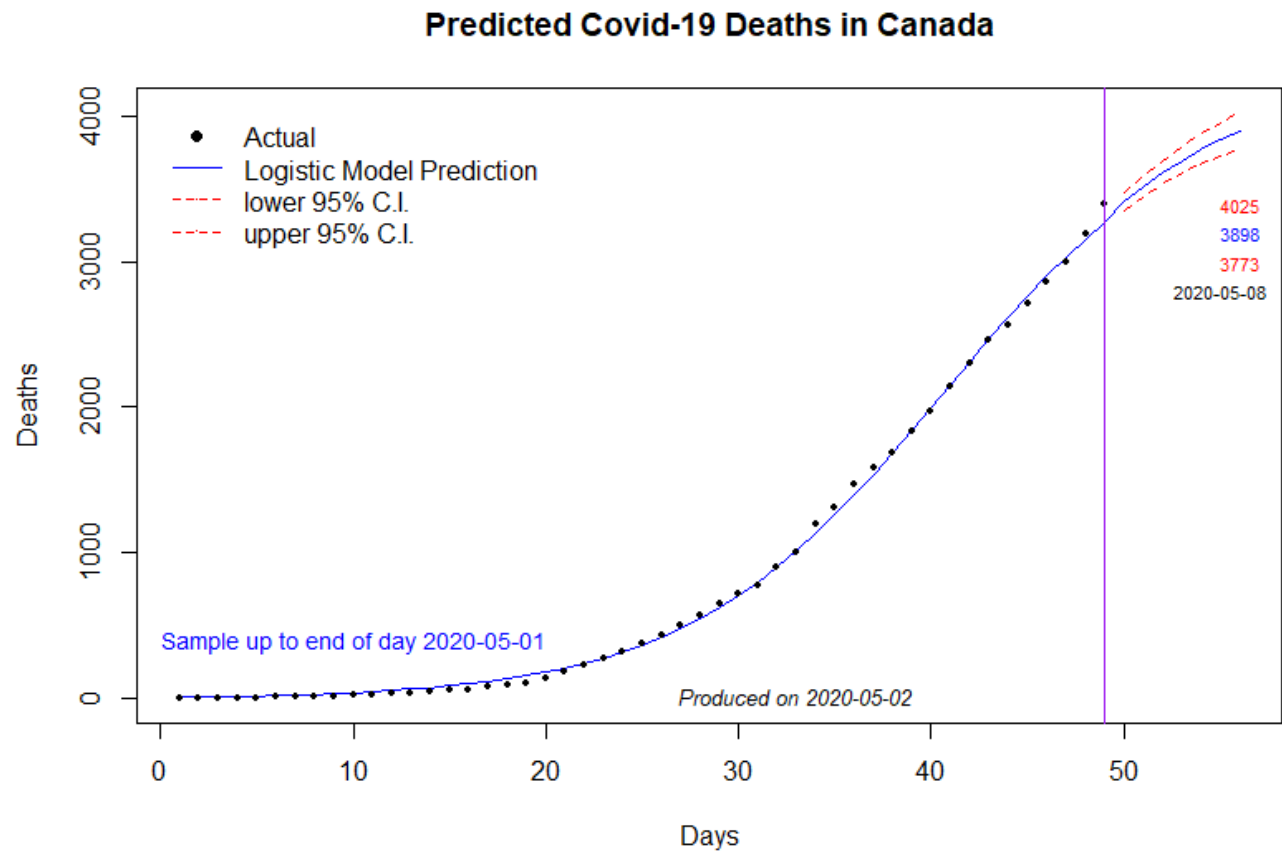
2. Total Number of Deaths

Predicted Covid-19 Deaths in Canada

Legend:
- **Actual**
- **Logistic Model Prediction**
- **lower 95% C.I.**
- **upper 95% C.I.**

Sample up to end of day 2020-05-01

Produced on 2020-05-02

4025
3898
3773
2020-05-08

Axis labels: Deaths (y-axis), Days (x-axis)

Table 2: Projected Covid-19 Deaths in Canada

(95% Prediction Intervals are in Red; Actual Values are in Brackets)

Sample end (projection made): 28 April

29 Apr	30 Apr	1 May	2 May	3 May	4 May	5 May
2907	3007	3093	3172	3232	3299	3350
2950	**3054**	**3150**	**3233**	**3308**	**3380**	**3442**
[2996]	[3184]	[3391]				
2995	3104	3207	3305	3387	3466	3535

Sample end (projection made): 29 April

30 Apr	1 May	2 May	3 May	4 May	5 May	6 May
3037	3127	3209	3285	3349	3405	3456
[3184]	[3391]					
3077	**3176**	**3267**	**3345**	**3420**	**3483**	**3540**
3121	3226	3325	3414	3490	3562	3629

Sample end (projection made): 30 April

1 May	2 May	3 May	4 May	5 May	6 May	7 May
3185	3270	3353	3427	3489	3546	3602
3230	**3326**	**3415**	**3493**	**3568**	**3632**	**3690**
[3391]						
3278	3381	3480	3565	3648	3728	3797

Sample end (projection made): 1 May

2 May	3 May	4 May	5 May	6 May	7 May	8 May
3352	3441	3525	3604	3668	3723	3773
3410	**3512**	**3604**	**3689**	**3766**	**3832**	**3898**
3475	3587	3691	3785	3876	3947	4025

<u>Note</u>: Prediction intervals are based on 1,000 bootstrap replications. The point predictions are the mean of the bootstrap sample for each day, *so these differ from the simple extrapolation from the estimated Logistic curve.*
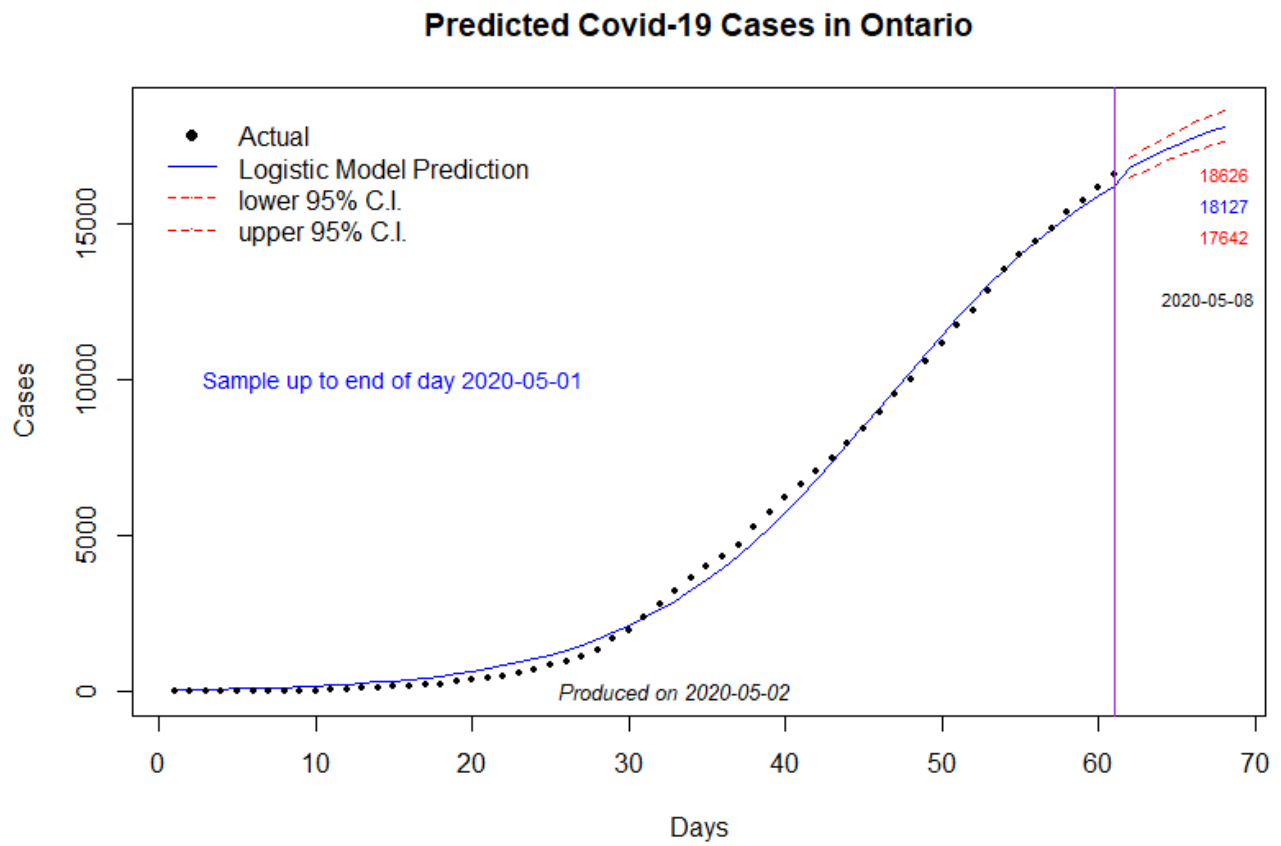
ONTARIO

1. **Total Cases**

Predicted Covid-19 Cases in Ontario

Legend:
- Actual
- Logistic Model Prediction
- lower 95% C.I.
- upper 95% C.I.

Sample up to end of day 2020-05-01

Produced on 2020-05-02

18626
18127
17642

2020-05-08

Y-axis: Cases
X-axis: Days

Table 3: Projected Covid-19 Cases in Ontario

(95% Prediction Intervals are in Red; Actual Values are in Brackets)

Sample end (projection made): 28 April

29 Apr	*30 Apr*	*1 May*	*2 May*	*3 May*	*4 May*	*5 May*
15273	15542	15798	16022	16212	16432	16589
15565	**15881**	**16171**	**16443**	**16688**	**16913**	**17110**
[15728]	[16187]	[16608]				
15881	16227	16550	16900	17161	17450	17667

Sample end (projection made): 29 April

30 Apr	*1 May*	*2 May*	*3 May*	*4 May*	*5 May*	*6 May*
15658	15928	16214	16439	16624	16814	16939
15987	**16275**	**16575**	**16819**	**17042**	**17265**	**17452**
[16187]	[16608]					
16318	16624	16947	17244	17520	17753	17983

Sample end (projection made): 30 April

1 May	*2 May*	*3 May*	*4 May*	*5 May*	*6 May*	*7 May*
16069	16327	16590	16809	16965	17152	17329
16391	**16674**	**16947**	**17193**	**17397**	**17612**	**17793**
[16608]						
16698	17020	17313	17590	17846	18070	18316

Sample end (projection made): 1 May

2 May	*3 May*	*4 May*	*5 May*	*6 May*	*7 May*	*8 May*
16485	16717	16938	17159	17338	17496	17642
16793	**17062**	**17324**	**17545**	**17764**	**17950**	**18127**
17116	17441	17722	17954	18251	18438	18626

Note: Prediction intervals are based on 1,000 bootstrap replications. The point predictions are the mean of the bootstrap sample for each day, *so these differ from the simple extrapolation from the estimated Logistic curve.*
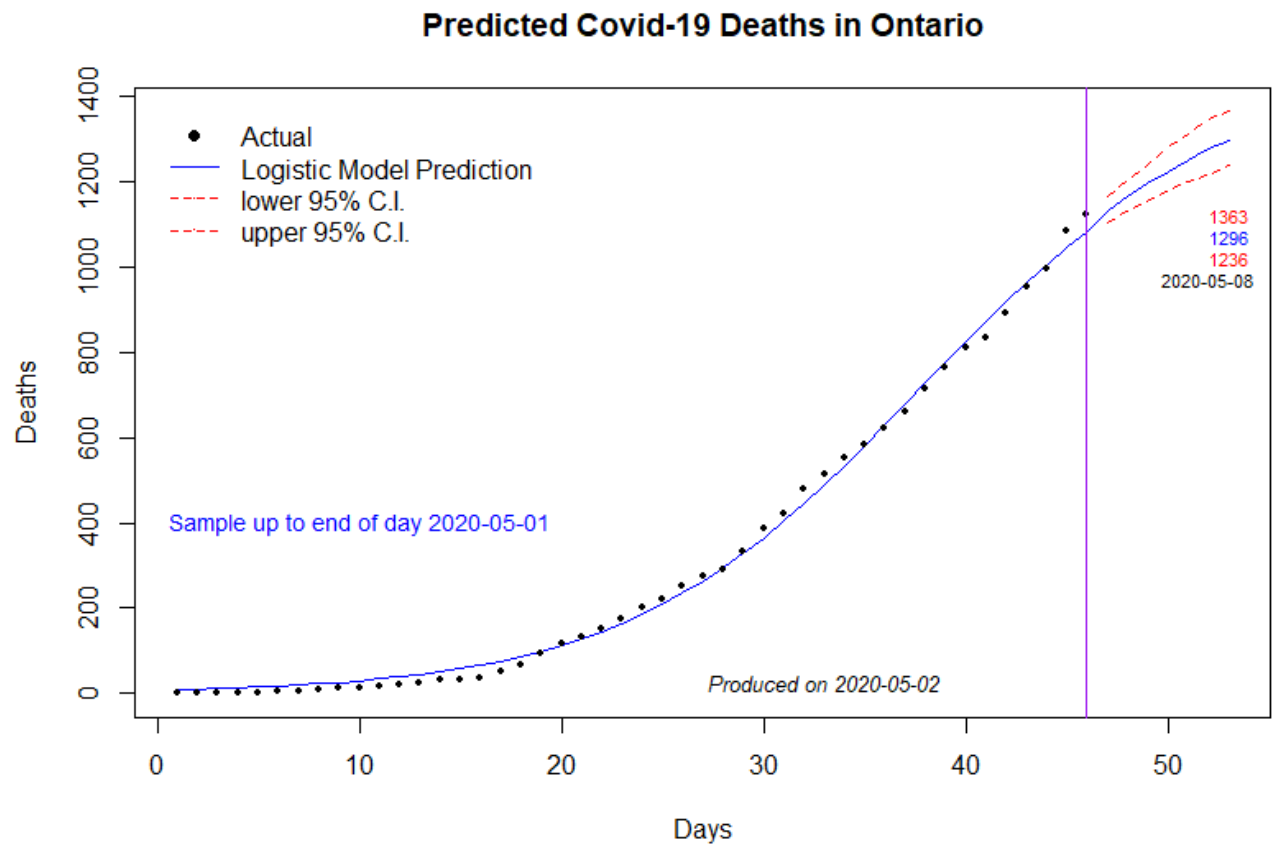
2. Total Number of Deaths

Predicted Covid-19 Deaths in Ontario

Table 4: Projected Covid-19 Deaths in Ontario

(95% Prediction Intervals are in Red; Actual Values are in Brackets)

Sample end (projection made): 28 April

29 Apr	*30 Apr*	*1 May*	*2 May*	*3 May*	*4 May*	*5 May*
934	960	983	1003	1020	1036	1050
958 [996]	987 [1082]	1014 [1121]	1037	1059	1078	1096
986	1017	1048	1074	1101	1124	1148

Sample end (projection made): 29 April

30 Apr	*1 May*	*2 May*	*3 May*	*4 May*	*5 May*	*6 May*
980	1005	1033	1052	1069	1084	1101
1005 [1082]	1035 [1121]	1064	1087	1110	1128	1148
1031	1064	1097	1124	1158	1173	1200

Sample end (projection made): 30 April

1 May	*2 May*	*3 May*	*4 May*	*5 May*	*6 May*	*7 May*
1042	1069	1096	1121	1141	1156	1176
1072 [1121]	1104	1134	1162	1187	1210	1229
1105	1143	1173	1210	1243	1272	1296

Sample end (projection made): 1 May

2 May	*3 May*	*4 May*	*5 May*	*6 May*	*7 May*	*8 May*
1101	1128	1151	1179	1200	1216	1236
1129	1163	1194	1223	1250	1275	1296
1163	1202	1239	1278	1309	1344	1363

Note: Prediction intervals are based on 1,000 bootstrap replications. The point predictions are the mean of the bootstrap sample for each day, *so these differ from the simple extrapolation from the estimated Logistic curve.*