

## Appendix

Table 1: Daily Data

DAY	Daily increase-COVID-19	TWIT#TAG
1	2648.00	409683
2	302.00	137836
3	50.00	521958
4	200.00	516909
5	1121.00	179629
6	822.00	232732
7	651.00	200671
8	151.00	203841
9	1347.00	195921
10	1558.00	188392
11	2537.00	208811
12	2020.00	162450
13	3301.00	155593
14	607.00	165771
15	2061.00	143163
16	1332.00	150803
17	2324.00	446438
18	4084.00	221591
19	4850.00	383148
20	6823.00	454765
21	-5164.00	463779
22	3059.00	370145
23	7920.00	365915
24	429.00	111568
25	4164.00	190197
26	12586.00	399444
27	4900.00	360536
28	837.00	416823
29	-6295.00	440916
30	3876.00	314568
31	10708.00	141622
32	2995.00	256577
33	2655.00	364600
34	5311.00	355120
35	-2883.00	400725
36	-9447.00	415218
37	3594.00	449615

38	6288.00	420892
39	5174.00	301758
40	1415.00	249855
41	7560.00	370946
42	-12251.00	375139
43	-9157.00	364295
44	60.00	391722
45	3337.00	386105
46	6606.00	403688
47	743.00	446578
48	1984.00	415856
49	-4896.00	405983
50	-6059.00	386764
51	4169.00	371892
52	-1147.00	116393
53	2376.00	369705
54	2455.00	384458
55	11931.00	455707
56	-7018.00	476309
57	-16823.00	467848
58	-2941.00	462685
59	6427.00	355258
60	3269.00	276472
61	7797.00	351073
62	6983.00	387607
63	-12458.00	437726
64	-644.00	381961
65	-570.00	370511
66	953.00	202516
67	13681.00	240978
68	-25.00	477347
69	-124.00	450479
70	-7902.00	443590
71	-8209.00	447543
72	-6444.00	460810
73	14110.00	403788
74	3430.00	390524
75	6964.00	402240
76	3491.00	428065
77	-5258.00	409239
78	-13613.00	396484

79	9488.00	430973
80	4956.00	459411
81	6959.00	456179
82	5261.00	439230
83	-549.00	383761
84	-7503.00	295793
85	-3539.00	280315
86	-5210.00	325211
87	2389.00	380763
88	13860.00	385003
89	9817.00	349108
90	9480.00	355219
91	-2083.00	309739
92	-15732.00	257828
93	-6664.00	296079
94	13519.00	292423
95	4966.00	333897
96	10352.00	307755
97	306.00	242845
98	-2343.00	440731
99	-14299.00	582951
100	-26218.00	582951
101	53302.00	580923
102	-5425.00	603498
103	2367.00	613154
104	5052.00	555504
105	-8588.00	492913
106	-9820.00	446690
107	1754.00	533673
108	17759.00	534963
109	1946.00	546140
110	-5181.00	549243
111	41332.00	518686
112	-24299.00	450263
113	-27485.00	409229
114	9824.00	527048
115	24118.00	550554
116	10401.00	524715
117	6491.00	544305
118	14581.00	485246
119	-17554.00	496508

120	-13650.00	468514
121	-1249.00	497688
122	12880.00	504698
123	22741.00	530347
124	11133.00	450746
125	5381.00	451483
126	-19731.00	453807
127	-16833.00	436842
128	-6193.00	463858
129	36751.00	415146
130	5368.00	489883
131	10232.00	509344
132	13446.00	477470
133	-20438.00	438349
134	-19116.00	423828
135	-1238.00	498068
136	23357.00	519174
137	15558.00	505993
138	13117.00	409574
139	-7921.00	509769
140	5671.00	499200
141	-45155.00	461681
142	3857.00	463389
143	34902.00	526415
144	39993.00	506063
145	-4306.00	499425
146	13025.00	490651
147	-27450.00	421328
148	-37691.00	425375
149	-5387.00	453829
150	30690.00	509227
151	39877.00	508753
152	-1891.00	480060
153	4336.00	444284
154	-31952.00	406377
155	-36321.00	442473
156	-22655.00	460532
157	53386.00	477837
158	18703.00	479044
159	11401.00	448211
160	-613.00	484775

161	-12563.00	376467
162	-45598.00	414638
163	-6899.00	341309
164	49435.00	369610
165	21592.00	445582
166	-2702.00	453421
167	3441.00	411479
168	-25636.00	380488
169	-46515.00	386916
170	-14937.00	451505
171	55970.00	435889
172	16856.00	459025
173	-4067.00	434798
174	-8302.00	358510
175	5624.00	351508
176	-56865.00	373171
177	5894.00	451780
178	37165.00	409593
179	23663.00	324066
180	-736.00	358714
181	12326.00	362332
182	-24619.00	312482
183	-38153.00	386787
184	22193.00	416378
185	12814.00	417501
186	25034.00	399804
187	2360.00	437709
188	17116.00	419133
189	-28349.00	301189
190	-37819.00	362347
191	-36367.00	384333
192	43841.00	445089
193	41121.00	424464
194	13665.00	441659
195	14931.00	421773
196	-26951.00	361744
197	-36802.00	352420
198	-4242.00	436189
199	30847.00	416577
200	28025.00	450159
201	4962.00	414220

202	11970.00	454277
203	-25162.00	353477
204	-42267.00	279155
205	-21123.00	313884
206	39702.00	338171
207	39642.00	308654
208	-1298.00	336817
209	10980.00	313666
210	-21748.00	258459
211	-43740.00	267270
212	-23220.00	325217
213	51695.00	353729
214	26457.00	319214
215	8681.00	285266
216	3897.00	292818
217	-22979.00	266120
218	-48520.00	285966
219	14289.00	352933
220	39390.00	339645
221	38272.00	315790
222	7303.00	339851
223	6868.00	342916
224	10748.00	282791
225	-83472.00	296972
226	-14830.00	315362
227	41414.00	361886
228	67882.00	349032
229	17380.00	340906
230	15839.00	347773
231	-24114.00	300064
232	-45151.00	313704
233	390286.00	324979
234	-296949.00	329425
235	39248.00	299733
236	13193.00	314015
237	-18543.00	270761
238	-44529.00	301853
239	-16623.00	298717
240	47585.00	323585
241	50403.00	321304
242	34238.00	330282

243	26756.00	360201
244	-74374.00	335625
245	-31761.00	260194
246	8065.00	318485
247	15877.00	313297
248	79026.00	263239
249	50977.00	309199
250	-32154.00	286174
251	78721.00	239689
252	-165444.00	200793
253	-11901.00	312749
254	66317.00	311772
255	64902.00	305953
256	27248.00	310227
257	16446.00	280295
258	-64201.00	252826
259	-84099.00	295868
260	-8143.00	312275
261	51336.00	310295
262	62407.00	335916
263	33070.00	322727
264	14025.00	315290
265	-64828.00	269821
266	-80213.00	261276
267	13477.00	317644
268	22704.00	311462
269	18597.00	302249
270	99471.00	269742
271	-60719.00	242384
272	-30242.00	219775
273	-70943.00	209936
274	-18922.00	253443
275	82649.00	547974
276	58593.00	35694
277	48004.00	238542
278	5176.00	267499
279	-51530.00	242523
280	-90831.00	218552
281	-17669.00	253973
282	68677.00	113896
283	58108.00	285541

284	37611.00	297114
285	14336.00	251648
286	-59068.00	229506
287	-99746.00	244440
288	-19540.00	301580
289	61566.00	305545
290	128435.00	299980
291	12178.00	310209
292	-13860.00	296715
293	-88469.00	268858
294	-70726.00	311576
295	-21301.00	359451
296	71278.00	298142
297	82036.00	309063
298	-3072.00	252927
299	-154960.00	176884
300	-68383.00	245401
301	-31158.00	251377
302	66068.00	281009
303	126157.00	328017
304	108147.00	326176
305	17472.00	275616
306	-120933.00	230350
307	-61505.00	249692
308	-41449.00	287439
309	31449.00	325652
310	146129.00	343757
311	96378.00	285100
312	35231.00	293183
313	988.00	308614
314	-75178.00	240722
315	-125679.00	244374
316	-48006.00	308093
317	90015.00	332771
318	61188.00	329824
319	8800.00	278591
320	6048.00	251648
321	-83104.00	330343
322	-121514.00	257941
323	-75369.00	285752
324	110715.00	309426



325	74887.00	291770
326	-15266.00	299733
327	-11323.00	314015
328	-38372.00	270761
329	-118112.00	271860
330	-39163.00	338604
331	85391.00	325809
332	63430.00	304448
333	4708.00	68704
334	-10521.00	305611
335	-58790.00	260730
336	-112762.00	238262

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**Table 2: Weekly Data**

WEEK	Weekly increase-COVID-19	TWIT#TAG
1	27056	2199418
2	53848	1280779
3	113708	2263687
4	176892	2214628
5	161551	2274128
6	68839	2583423
7	-17683	2814227
8	20647	2561228
9	-28927	2738669
10	54411	2567382
11	5006	2942209
12	67264	2861831
13	71238	2385358
14	81994	2171558
15	60178	4011894
16	128496	3579658
17	143076	3537605
18	159558	3357283
19	133173	3230892
20	135900	3365606
21	166260	3368952
22	64687	3227905
23	-29993	3169339
24	53490	2816527
25	-81806	2878151

26	39148	2592138
27	105441	2778501
28	-7491	2841409
29	139220	2877319
30	1042	2148806
31	26088	2109634
32	218401	2259892
33	200943	2311995
34	931545	2154470
35	64890	2229908
36	441984	1930876
37	184119	2069690
38	45586	2127600
39	-66110	1808991
40	208625	1804757
41	116404	1723725
42	95513	2152334
43	-523522	1814803
44	380214	2022942
45	801576	2023843
46	-405824	2066870
47	-660368	2096169
48	-418851	1796133
49	-232400	1606772
50	-684794	1609273
51	-254911	1653853
52	177526	913513

*Table 31: Monthly Data*

<b>MONTH</b>	<b>Monthly ncrease-COVD-19</b>	<b>TWIT#TAG</b>
March	876211	8855618
Aprl	1641429	11249236
May	515978	11839941
June	1372958	14513787
July	2889293	14673361
August	758396	12665697
September	571636	11108300
October	3647071	9540275
November	5079538	8514995
December	2091705	8425428
January	118396	8783579

**Table 4: Major Pandemics: Historical Overviews**

<b>Name</b>	<b>Time Period</b>	<b>Type/Pre-human host</b>	<b>Estimated Death Toll</b>
Antoine Plague	165-180	Believed to be either smallpox or measles	5 million
Japanese smallpox epidemic	735-737	Variola major virus	1 million
Plague of Justinian	541-542	Yersna pests bacteria/rats, fleas	30 to 50 million
Black Death	1347-1351	Yersna pests bacteria/rats, fleas	200 million
New World Smallpox Outbreak	1520-onwards	Variola major virus	56 million
Great Plague of London	1665	Yersna pests bacteria/rats, fleas	100,000
Italian Plague	1629-1631	Yersna pests bacteria/rats, fleas	1 million
Cholera Pandemics 1-6	1817-1923	V. cholera bacteria	1 million+
Third Plague	1885	Yersna pests bacteria/rats, fleas	12 million (China & India)
Yellow Fever	Late 1800s	Vrus/Mosquitoes	100,000-150,000 (US)
Russian Flu	1889-1890	H2N2 (avian origin)	1 million
Spanish Flu	1918-1919	H1N1 virus/pigs	40 to 50 million
Asian Flu	1957-1958	H2N2 virus	1.1 million
Hong Kong Flu	1968-1970	H3N2 virus	1 million
HIV/AIDS	1981-present	Virus/chimpanzees	25 to 35 million
Swine Flu	2009-2010	H1N1 virus/pigs	200,000
SARS	2002-2003	Coronavirus/bats, civets	770
Ebola	2014-2016	Ebolavirus/ wild animals	11,000
MERS	2015-present	Coronavirus/bats, camels	850

Source: World Economic Forum (2020)



**Table 5: Regression Model**

Dependent Variable: DALY\_NCREASE\_COVD\_19

Method: Least Squares

Date: 07/21/21 Time: 22:09

Sample: 1 336

included observations: 336

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-19366.76	9724.264	-1.991591	0.0472
TWT_TAG	0.057623	0.026163	2.202473	0.0283
R-squared	0.014316	Mean dependent var	1242.009	
Adjusted R-squared	0.011365	S.D. dependent var	48796.10	
S.E. of regression	48518.04	Akaike info criterion	24.42319	
Sum squared resid	7.86E+11	Schwarz crteron	24.44591	
Log likelihood	-4101.097	Hannan-Qunn crter.	24.43225	
F-statstc	4.850887	Durbin-Watson stat	1.832923	
Prob(F-statstc)	0.028315			