

COVID-19 Statistical Review

Today's Analysis: Data from December 01, 2020

Tuesday was the expected back-to-normal day with a modest increase in cases and a strong increase in deaths WOW.

Importantly, the numbers, at least for this one day, do not erase the gains made during the holiday weekend. While it's possible that the next few days might do that, it looks pretty good that they will not.

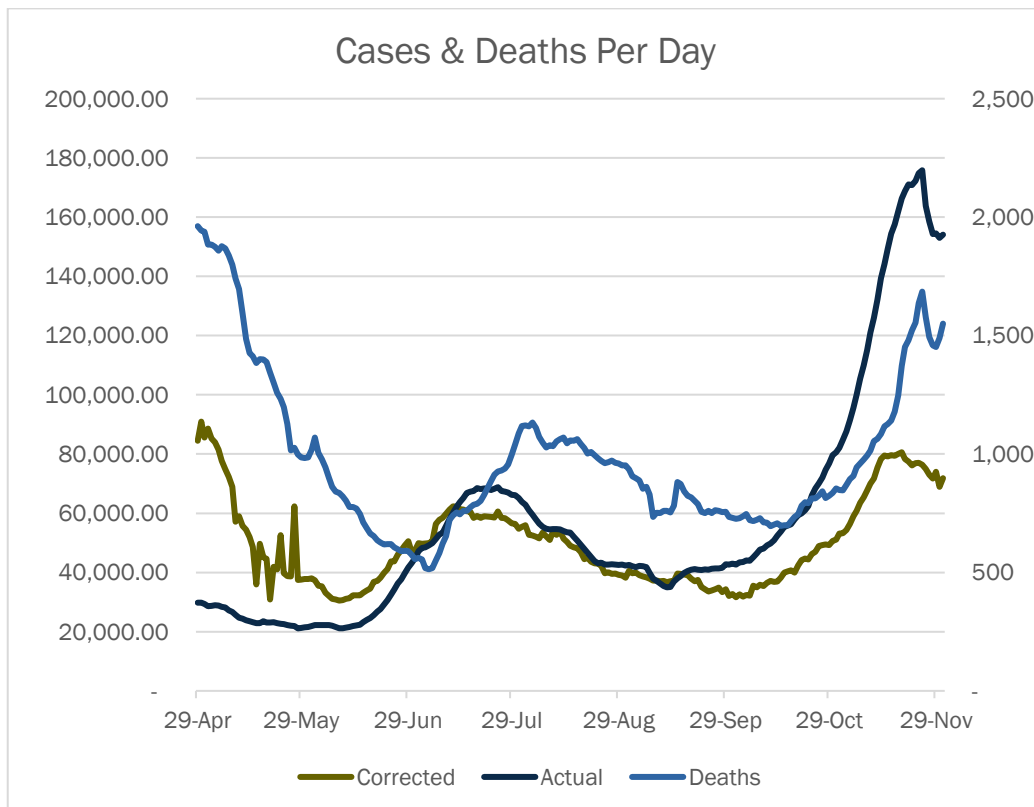
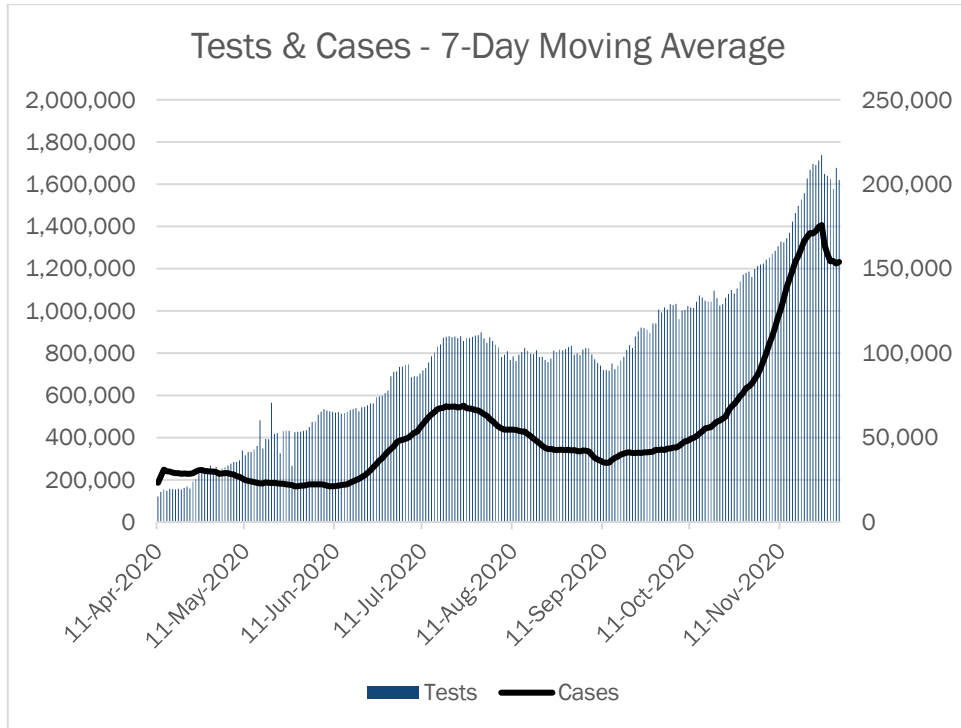
Here's where we are: With cases, the numbers show clearly that the exponential increase has stopped. That exponential expansion would be the circumstance that could, if sustained, create a true crisis. The CDC still thinks that could happen, hence their caution. The statistics show it is not happening. Indeed, the corrected statistics suggest strongly now that we have a decrease in cases, which will soon lead to a decrease in deaths. Our experience in July and August, following the summer surge, says we have a week to 10 days to go before deaths start to fall.

When will this thing go away for sure? Depends on your point of view. If you want COVID to disappear completely, then the 1918 experience says sometime early in 2022. 2021 surges will probably be much smaller, but they remain likely. That is the sad lesson of 2020.

If you want life to go back to 'normal', then the forecast is more optimistic. The lesson of this surge, a bad one, is that life can go on. This virus seldom threatens healthy people or people below the age of 65. Accordingly, most of us are taking the risks of interacting more normally despite the high case numbers. Moreover, the authorities are increasingly reluctant to restrict activity, knowing that their edicts will be widely ignored. Such a state of affairs is certain to be strengthened as this surge recedes. We should expect such a recession given Europe's record, which is clearly in a major fall in cases (see Exhibit 4).

Noel Perry, Principal
717-673-2998
transportguy@earthlink.net

Exhibit 1



Source: Worldometer.com, [Transport Futures](http://TransportFutures.net)

Exhibit 2.

Country	Status	Cases	Deaths	Death Rate	Pop per case	Pop per death	Daly Max Cases	New Cases Latest Day	Daily Max Deaths	New Deaths Latest Day	Change In New Case Count Latest Day	Change In New Case Count From Week Before	Change in New Death Count Latest Day	Change in New Death Count From Week Ago
China	Recovery	86,542	4,634	5.4%	16,667	333,333	127	12	9	-	(6)	(10)	0	0
S. Korea	Recovery	34,652	526	1.5%	1,479	100,000	441	451	9	-	74	102	-3	-1
Italy	Falling	1,620,901	56,361	3.5%	37	1,072	40,902	19,350	919	785	2,973	(3,882)	113	-68
Iran	Rising	975,951	48,628	5.0%	87	1,736	13,843	13,881	480	382	560	160	11	-101
Germany	Falling	1,085,661	17,359	1.6%	77	4,831	23,676	15,898	357	497	1,742	(360)	168	115
France	Falling	2,230,571	53,506	2.4%	29	1,221	86,852	8,083	1,495	466	4,078	(1,072)	60	-126
UK	Falling	1,643,086	59,051	3.6%	41	1,152	33,470	13,430	980	603	1,100	2,131	398	-5
Norway	Falling	36,591	334	0.9%	149	16,393	717	441	16	2	119	(93)	-2	-1
Netherlands	Falling	527,523	9,438	1.8%	33	1,818	11,119	4,045	234	62	(523)	119	35	-28
Sweden	Falling	260,758	6,798	2.6%	39	1,490	3,180	-	185	24	17,629	364	24	9
USA	Inflection	14,108,490	276,976	2.0%	24	1,198	101,461	182,172	2,804	2,611	20,604	7,125	1373	424
Spain	Falling	1,673,202	45,511	2.7%	28	1,028	25,595	8,257	961	442	1,598	1,036	309	-95
Switzerland	Falling	330,874	4,940	1.5%	26	1,757	21,926	3,802	167	125	(4,980)	(439)	-40	39
Belgium	Falling	577,345	16,645	2.9%	20	697	23,921	746	496	98	(1,405)	(377)	12	-39
Denmark	Falling	81,949	846	1.0%	71	6,849	1,427	1,468	22	9	339	101	1	1
Austria	Falling	285,489	3,325	1.2%	32	2,717	9,586	3,033	83	141	285	(1,344)	62	23
Canada	Falling	383,468	12,211	3.2%	99	3,106	7,861	5,329	222	81	(2,532)	440	-17	-16
Ireland	Falling	72,798	2,069	2.8%	-	2,398	1,515	254	220	16	(49)	35	15	10
Portugal	Falling	300,462	4,577	1.5%	34	2,227	7,497	2,401	79	72	(861)	(1,518)	-6	-13
Australia	Recovery	27,912	908	3.3%	918	28,571	651	8	59	-	(3)	(6)	-1	0
Brazil	Rising	6,388,526	173,862	2.7%	33	1,225	70,869	52,248	1,554	697	30,710	18,803	380	59
Malaysia	Recovery	67,169	363	0.5%	484	90,909	2,188	1,472	8	3	260	(716)	0	-1
Mexico	Falling	1,113,543	105,940	9.5%	116	1,222	9,556	6,472	1,092	285	84	(1,011)	89	35
Singapore	Recovery	58,228	29	0.0%	101	200,000	1,426	10	2	-	5	(8)	0	0
North America	Inflection	15,605,501	395,127	2.5%	32	1,263	200,749	193,973	2,977	2,977	18,156	6,554	1,445	443
Western Europe	Falling	10,727,210	280,760	2.6%	38	1,434	208,662	81,208	4,450	3,342	22,045	(5,299)	1,149	(178)
Other	Rising	37,846,788	809,891	2.1%	182	8,485	301,757	301,757	9,951	5,568	40,492	32,431	1,002	(91)
World	Rising	64,179,499	1,485,778	2.3%	121	5,247	659,511	576,938	11,887	#####	80,693	33,686	3,596	174

Source: Worldometer.com, Transport Futures

Exhibit 3..

	Hot Spot Group	Total Cases	Max New Cases/Day Since 21 April	New Cases Latest Day	Change in New Cases/Day	Change In Cases/Day Since Week Ago	Change In Cases/Day Since Max	Total Deaths	Max New Deaths/Day Since 21 April	New Deaths Latest Day	Change In New Deaths/Day	Change In Deaths/Day Since Week Ago	Change In Deaths/Day Since Max	Cases/M	Deaths/ Million	Population
USA Total	All	14,108,490	86,293	182,172	20,604	7,125	111%	276,976	2,804	2,611	1,373	424	-7%	42,623	837	331,004,361
Hot-Spot Group 1	1	2,319,555	29,037	33,021	6,822	6,840	14%	92,309	1,830	462	208	174	-75%	47,414	1,276	2,096,906
Hot-Spot Group 2	2	5,727,815	58,454	65,874	10,372	1,026	13%	96,632	1,063	709	346	106	-33%	18,174	743	4,218,066
Hot-Spot Group 3	3	3,341,339	63,150	49,220	6,640	3,094	-22%	54,333	911	911	534	47	0%	52,790	745	3,017,747
Hot-Spot Group 4	4	2,719,781	52,356	34,057	(3,230)	(3,835)	-35%	33,702	529	529	285	97	0%	57,807	526	1,787,063
New York	1	694,060	10,868	7,614	279	2,136	-30%	34,655	764	74	9	40	-90%	35,678	1,781	19,453,968
New Jersey	1	350,039	5,062	5,062	914	173	0%	17,228	458	84	64	38	-82%	39,409	1,940	8,882,395
Massachusetts	1	229,205	4,946	3,073	1,905	497	-38%	10,778	252	30	4	10	-88%	33,254	1,564	6,892,405
Pennsylvania	1	372,688	7,028	5,717	133	(648)	-19%	10,638	294	170	125	86	-42%	29,112	831	12,801,381
Louisiana	1	237,740	5,326	5,326	5,157	2,083	0%	6,455	126	35	22	(4)	-72%	51,140	1,389	4,648,783
Connecticut	1	118,754	5,271	1,459	(3,255)	919	-72%	5,040	125	20	(39)	10	-84%	33,308	1,414	3,565,242
Maryland	1	201,135	2,910	2,765	842	1,098	-5%	4,673	77	32	16	(1)	-58%	33,269	773	6,045,713
Rhode Island	1	57,906	1,383	1,183	532	332	-14%	1,380	27	7	(1)	(9)	-74%	54,661	1,303	1,059,367
District Of Columbia	1	21,685	371	133	29	14	-64%	685	19	5	5	4	-74%	30,726	971	705,739
Delaware	1	36,343	689	689	286	236	0%	777	69	5	3	-	-93%	37,322	798	973,792
California	2	1,251,125	17,893	16,893	402	330	-6%	19,323	197	113	55	6	-43%	31,664	489	39,511,060
Florida	2	1,008,166	15,300	8,847	2,188	292	-42%	18,683	276	84	(15)	10	-70%	46,940	870	21,477,832
Texas	2	1,280,720	19,758	13,234	(245)	(6,556)	-33%	22,294	322	237	152	42	-26%	44,169	769	28,995,746
Georgia	2	476,405	6,209	4,842	2,795	1,166	-22%	9,515	122	63	53	57	-48%	44,870	896	10,617,138
Tennessee	2	380,186	7,975	5,693	(2,282)	4,389	-29%	4,638	92	36	(12)	(37)	-61%	55,671	679	6,829,015
North Carolina	2	367,395	4,514	2,883	149	(217)	-36%	5,284	67	23	2	(12)	-66%	35,030	504	10,487,897
Alabama	2	252,900	3,376	3,376	1,081	591	0%	3,638	81	60	59	47	-26%	51,579	742	4,903,192
Arizona	2	337,139	5,983	5,983	5,161	1,439	0%	6,687	172	48	43	(3)	-72%	46,318	919	7,278,621
Nevada	2	154,867	3,159	2,698	1,056	(155)	-15%	2,166	38	22	14	(2)	-42%	50,279	703	3,080,195
South Carolina	2	218,912	2,374	1,425	67	(253)	-40%	4,404	80	23	(5)	(2)	-71%	42,518	855	5,148,707

Source: Worldometer.com, Transport Futures

Exhibit 4.

	Hot Spot Group	Total Cases	Max New Cases/Day Since 21 April	New Cases Latest Day	Change in New Cases/Day	Change In Cases/Day Since Week Ago	Change In Cases/Day Since Max	Total Deaths	Max New Deaths/Day Since 21 April	New Deaths Latest Day	Change In New Deaths/Day	Change In Deaths/Day Since Week Ago	Change In Deaths/Day Since Max	Cases/M	Deaths/Million	Population
Ohio	3	430,093	11,885	9,030	2,399	426	-24%	6,548	138	119	89	21	-14%	36,794	560	11,689,615
Washington	3	174,273	5,561	2,480	(1,965)	(10)	-55%	2,818	32	26	(43)	(6)	-19%	22,886	370	7,615,063
Mississippi	3	154,411	1,972	1,141	(344)	476	-42%	3,836	58	29	28	(24)	-50%	51,883	1,289	2,976,189
Illinois	3	738,846	15,415	12,542	6,352	3,073	-19%	13,131	197	146	43	(4)	-26%	58,306	1,036	12,671,873
Michigan	3	395,453	10,140	6,511	1,297	(271)	-36%	9,759	232	195	98	41	-16%	39,597	977	9,987,209
Missouri	3	320,006	6,539	5,016	1,717	860	-23%	4,206	77	134	127	(4)	74%	52,140	685	6,137,553
Wisconsin	3	391,313	7,989	4,078	1,544	(2,124)	-49%	3,420	92	107	101	3	16%	67,208	587	5,822,701
Utah	3	198,216	4,588	2,510	613	(191)	-45%	890	26	19	16	8	-27%	61,827	278	3,205,934
Arkansas	3	159,309	2,312	1,950	838	(172)	-16%	2,512	33	10	(22)	(8)	-70%	52,790	832	3,017,747
Other	3	379,419	7,246	3,962	(5,811)	1,027	-45%	7,213	186	126	97	20	-32%	42,623	837	8,241,190
Indiana	4	344,373	8,322	5,396	(269)	(229)	-35%	5,864	119	141	103	38	18%	51,153	871	6,732,546
Colorado	4	237,310	6,439	4,405	272	255	-32%	3,109	122	72	38	22	-41%	41,209	540	5,758,981
Virginia	4	240,063	3,242	2,228	335	(316)	-31%	4,093	45	31	27	(6)	-31%	28,125	480	8,535,562
Iowa	4	231,456	5,451	2,050	606	(859)	-62%	2,431	45	27	(1)	9	-40%	73,360	771	3,155,131
Kentucky	4	183,168	4,127	4,127	2,011	1,521	0%	1,943	35	35	23	18	0%	40,999	435	4,467,477
Oklahoma	4	199,482	3,923	1,737	(463)	(999)	-56%	1,758	26	15	8	-	-42%	50,413	444	3,956,946
Minnesota	4	322,312	8,946	3,549	(2,245)	(2,867)	-60%	3,674	101	22	7	(16)	-78%	57,151	651	5,639,743
Kansas	4	159,654	7,002	465	(3,588)	220	-93%	1,560	84	-	(31)	-	-100%	54,802	535	2,913,351
New Mexico	4	99,419	3,665	2,324	646	225	-37%	1,589	35	21	(7)	(7)	-40%	47,414	758	2,096,906
Oregon	4	76,654	1,674	1,223	(88)	223	-27%	936	14	24	17	3	71%	18,174	222	4,218,066
Idaho	4	103,305	1,997	1,607	393	(33)	-20%	960	35	31	22	23	-11%	57,807	537	1,787,063
South Dakota	4	80,912	2,020	448	(116)	(563)	-78%	948	54	2	(1)	-	-96%	91,461	1,072	884,627
Nebraska	4	128,407	3,440	-	(1,143)	-	-100%	1,018	28	-	-	-	-100%	66,381	526	1,934,391
New Hampshire	4	21,766	537	772	258	432	44%	528	19	2	2	1	-89%	16,008	388	1,359,843
West Virginia	4	48,818	1,153	976	131	7	-15%	758	19	23	17	8	21%	27,240	423	1,792,229
Maine	4	11,976	2,456	219	(30)	(36)	-91%	214	20	20	17	8	0%	8,909	159	1,344,330
Vermont	4	4,239	149	67	(5)	19	-55%	72	3	3	1	2	0%	6,793	115	624,007
North Dakota	4	79,655	2,270	403	(191)	(601)	-82%	954	37	27	20	(10)	-27%	104,526	1,252	762,045
Hawaii	4	17,968	354	43	(42)	(17)	-88%	244	11	-	-	-	-100%	12,690	172	1,415,828
Wyoming	4	33,805	1,260	500	(316)	(28)	-60%	230	26	15	15	15	-42%	58,409	397	578,769
Montana	4	63,205	1,642	1,007	610	(116)	-39%	698	37	17	7	1	-54%	59,138	653	1,068,733
Alaska	4	31,834	1,453	511	4	(73)	-65%	121	13	1	1	(12)	-92%	43,516	165	731,588

