

COVID-19 Statistical Review

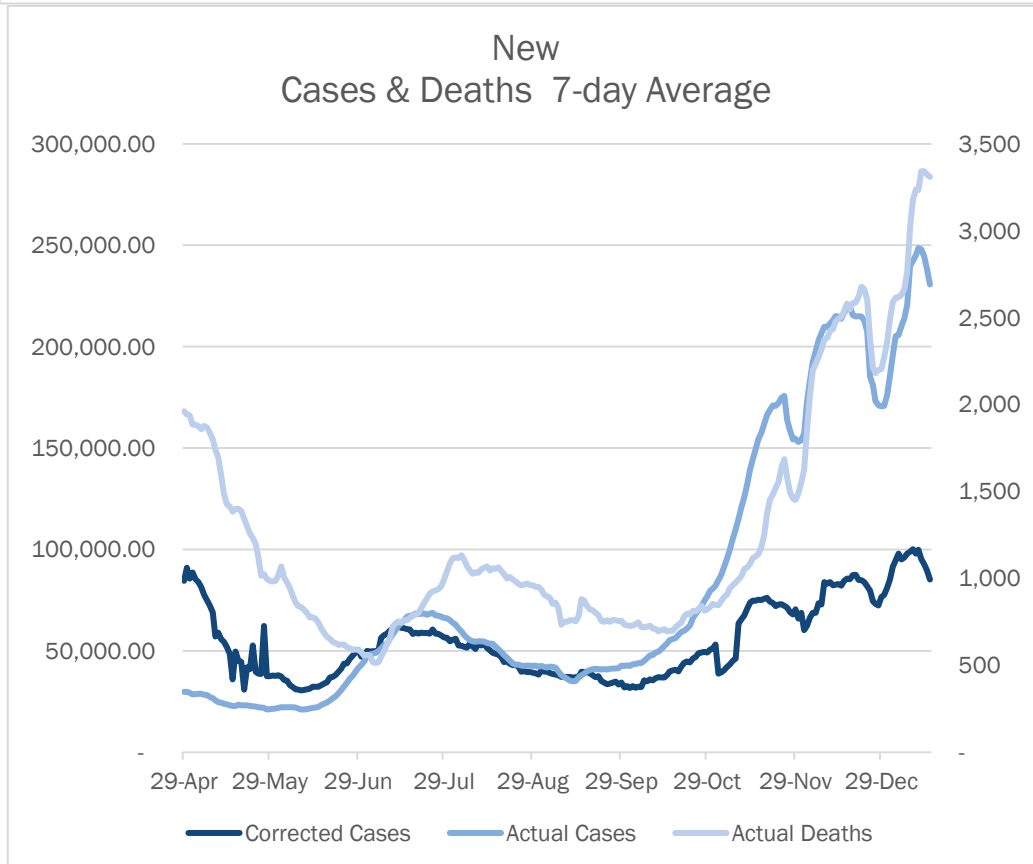
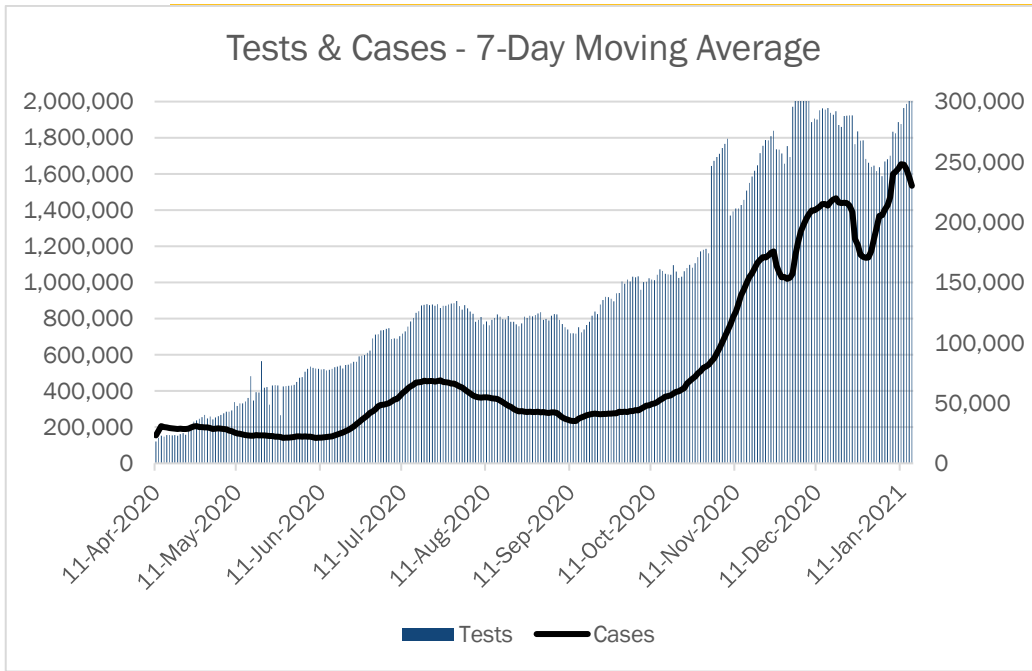
Today's Analysis: Data from January 15, 2020

Friday was well down in both cases and deaths, building the case for an inflection. All four groups are now heading down in both cases and deaths. This evidence contradicts the latest prediction from the CDC that the post-Christmas surge would continue unabated indefinitely. We don't, of course, know how far this fall will go. However, it does tell us that further rapid growth in cases and deaths per day is not likely.

Note the addition of a new chart (Exhibit 2) showing the progress of vaccinations in the U.S. Remember, as you look at the numbers, that it takes two doses to get full protection. In addition, the vaccines are not expected to prevent infections, the SARS-COV-2 infections. The vaccines are designed to prevent the dangerous COVID-19 immune system reactions. The latter are the killers. Therefore, as we are seeing, any reductions in cases have to do with the potency of the bug and the development of natural herd immunity, not the vaccine. We hope to begin to see sometime late this month a reduction in the death rates courtesy of the vaccine. If the last few days are an indication, that reduction will be in addition to the natural reduction in deaths we appear to see already. That natural reduction in deaths is the lagged effect of the reduction in new cases that we have seen several times during this troubling year.

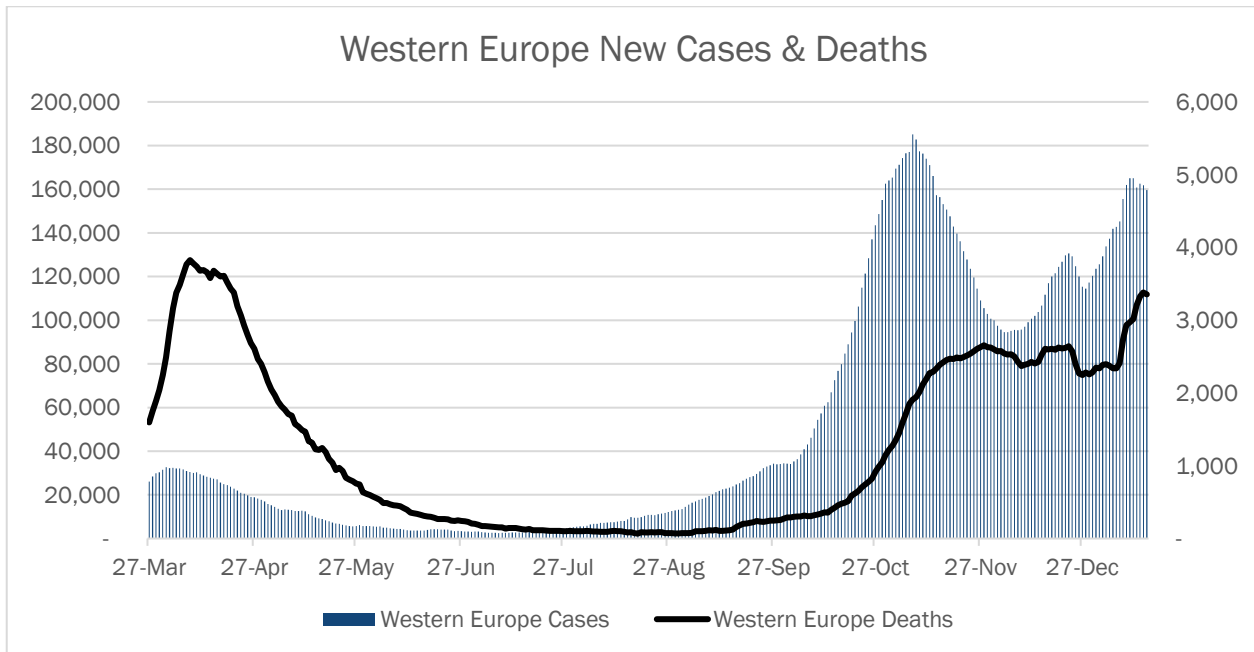
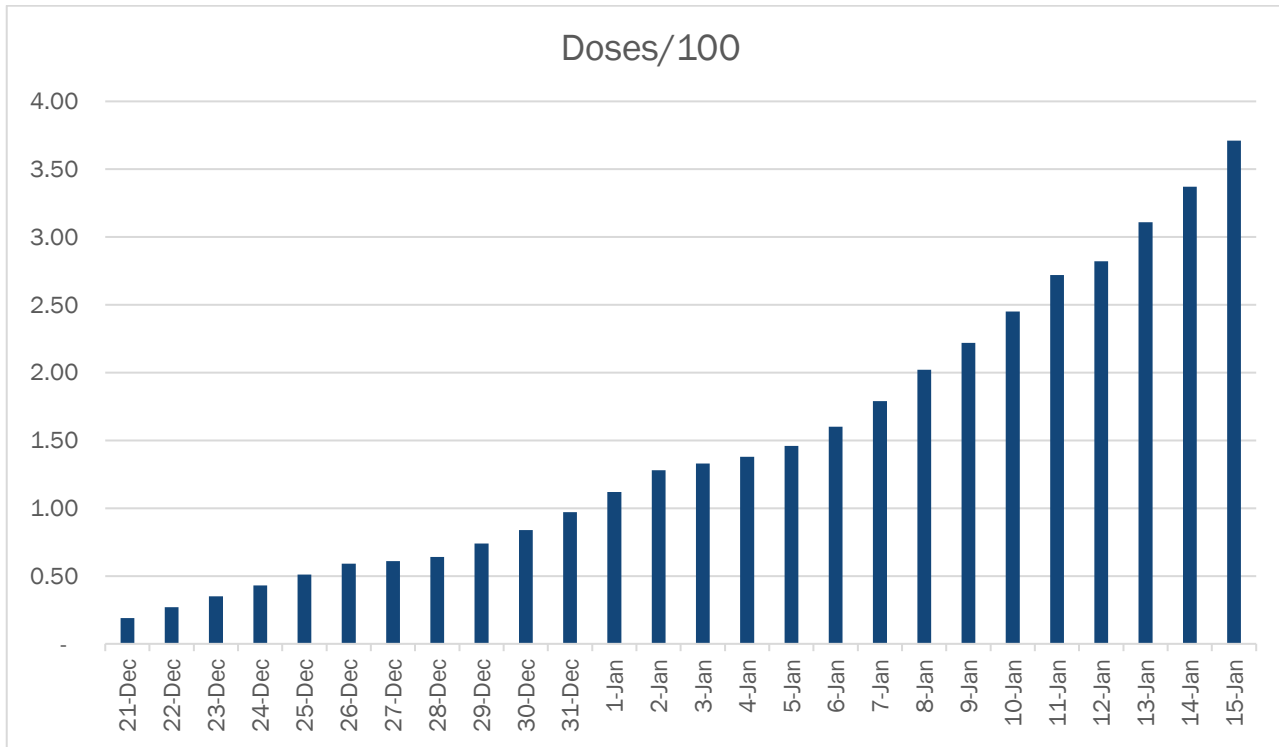
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Exhibit 1



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

Exhibit 2.



Source: Worldometer.com, Transport Futures

Exhibit 3.

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	87,988	4,635	5.3%	16,393	333,333	144	144	9	-	6	91	-1	0
S. Korea	Recovery	71,241	1,217	1.7%	720	41,667	1,132	513	24	22	(11)	(159)	12	-13
Italy	Falling	2,352,423	81,325	3.5%	26	743	40,902	16,146	993	477	(1,100)	(1,387)	-45	-143
Iran	Falling	1,318,295	56,621	4.3%	64	1,495	14,051	6,485	486	83	14	234	2	-2
Germany	Falling	2,023,802	46,537	2.3%	41	1,805	31,553	19,791	1,201	1,045	(3,140)	(6,020)	-43	-98
France	Inflection	2,872,941	69,949	2.4%	23	935	86,852	21,271	1,495	399	43	1,457	117	18
UK	Falling	3,316,019	87,295	2.6%	21	780	58,724	55,761	1,564	1,280	7,079	(12,292)	32	-45
Norway	Falling	58,202	517	0.9%	94	10,526	825	466	27	6	12	(218)	3	1
Netherlands	Falling	901,696	12,868	1.4%	19	1,333	13,032	6,009	234	94	(457)	(2,115)	5	7
Sweden	Falling	523,486	10,323	2.0%	19	981	22,319	-	185	34	(1,877)	(2,484)	3	3
USA	Falling	24,102,429	401,856	1.7%	14	826	274,190	248,080	4,259	3,805	17,623	(53,575)	-264	-109
Spain	Rising	2,252,164	53,314	2.4%	21	877	40,197	40,197	235	235	4,319	14,741	34	36
Switzerland	Falling	495,228	8,646	1.7%	18	1,005	21,926	2,396	169	60	(78)	(824)	-5	8
Belgium	Falling	672,886	20,294	3.0%	17	572	23,921	2,637	496	44	(290)	(286)	-12	-9
Denmark	Falling	187,320	1,720	0.9%	31	3,378	4,508	659	42	17	659	(1,001)	17	-13
Austria	Falling	390,788	6,987	1.8%	23	1,294	9,586	1,528	218	66	(1,982)	(535)	13	-7
Canada	Falling	695,707	17,729	2.5%	55	2,137	10,404	6,816	257	191	(747)	(2,398)	36	63
Ireland	Falling	166,548	2,536	1.5%	-	1,957	7,832	3,491	220	48	(422)	(4,736)	20	28
Portugal	Falling	528,469	8,543	1.6%	19	1,192	10,663	10,663	159	159	(35)	487	11	41
Australia	Recovery	28,665	909	3.2%	895	28,571	721	7	59	-	(1)	(18)	0	0
Brazil	Rising	8,394,253	208,291	2.5%	25	1,025	87,134	68,138	1,554	1,131	(518)	13,891	-20	87
Malaysia	Recovery	151,066	586	0.4%	216	55,556	3,337	3,211	15	8	(126)	568	-7	-8
Mexico	Rising	1,588,369	137,916	8.7%	82	940	16,468	16,468	1,235	999	595	2,734	-236	-45
Singapore	Recovery	59,059	29	0.0%	99	200,000	1,426	30	2	-	(15)	7	0	0
North America	Falling	26,386,505	557,501	2.1%	19	896	295,869	271,364	5,509	4,995	17,471	(53,239)	(464)	(91)
Western Europe	Falling	16,741,972	410,854	2.5%	24	980	213,359	181,015	4,459	3,964	2,731	(15,213)	150	(173)
Other	Inflection	51,155,615	1,048,277	2.0%	134	6,555	348,983	309,175	12,880	5,857	(7,913)	3,642	(231)	292
World	Falling	94,284,092	2,016,632	2.1%	83	3,865	820,357	761,554	14,816	#####	12,289	(64,810)	(545)	28

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
USA Total	All	24,102,429	301,655	248,080	17,623	(53,575)	-18%	401,856	4,134	3,805	(206)	(109)	-8%	72,816	1,214	331,004,361
Hot-Spot Group 1	1	4,198,430	56,429	48,732	3,313	(7,697)	-14%	118,552	1,830	716	(85)	(11)	-61%	60,558	1,629	67,002,431
Hot-Spot Group 2	2	10,423,136	150,050	123,817	1,525	(26,233)	-17%	144,249	2,099	2,038	37	(13)	-3%	76,446	1,084	131,632,800
Hot-Spot Group 3	3	5,184,012	63,150	40,298	8,833	(10,705)	-36%	82,638	1,014	520	(209)	(24)	-49%	75,547	1,106	67,059,786
Hot-Spot Group 4	4	4,296,851	52,356	35,233	3,952	(8,940)	-33%	56,417	915	531	51	(61)	-42%	59,019	884	71,140,342
New York	1	1,246,488	20,177	20,177	6,190	1,513	0%	40,641	764	193	(71)	44	-75%	64,075	2,089	19,453,968
New Jersey	1	616,086	9,309	6,365	(717)	(802)	-32%	20,366	458	113	79	14	-75%	69,362	2,293	8,882,395
Massachusetts	1	459,927	9,003	5,525	(430)	(2,595)	-39%	13,509	252	76	2	-	-70%	66,729	1,960	6,892,405
Pennsylvania	1	760,605	13,318	6,119	(1,034)	(4,080)	-54%	19,019	373	232	(56)	29	-38%	59,413	1,486	12,801,381
Louisiana	1	364,853	6,876	3,705	(1,608)	328	-46%	8,080	126	-	(58)	(105)	-100%	78,483	1,738	4,648,783
Connecticut	1	223,422	8,457	1,878	910	(1,358)	-78%	6,594	125	41	24	4	-67%	62,666	1,850	3,565,242
Maryland	1	320,739	3,792	2,924	(24)	(808)	-23%	6,494	77	45	-	2	-42%	53,053	1,074	6,045,713
Rhode Island	1	104,443	1,717	1,057	156	34	-38%	2,005	27	9	-	3	-67%	98,591	1,893	1,059,367
District Of Columbia	1	33,140	492	320	100	(37)	-35%	842	19	-	(11)	(1)	-100%	46,957	1,193	705,739
Delaware	1	68,727	1,220	662	(230)	108	-46%	1,002	69	7	6	(1)	-90%	70,579	1,029	973,792
California	2	2,925,929	61,569	39,132	(1,233)	(11,710)	-36%	32,971	694	694	113	15	0%	74,051	834	39,511,060
Florida	2	1,548,067	19,816	16,875	3,155	(2,655)	-15%	23,799	276	185	(32)	1	-33%	72,078	1,108	21,477,832
Texas	2	2,102,400	31,646	24,777	(670)	437	-22%	32,292	466	396	(19)	(70)	-15%	72,507	1,114	28,995,746
Georgia	2	801,130	13,296	9,806	770	(3,490)	-26%	12,138	172	163	(9)	79	-5%	75,454	1,143	10,617,138
Tennessee	2	676,039	11,410	5,557	574	(812)	-51%	8,311	177	79	(5)	(47)	-55%	98,993	1,217	6,829,015
North Carolina	2	659,840	11,581	8,914	(939)	(1,114)	-23%	7,933	166	108	28	(7)	-35%	62,913	756	10,487,897
Alabama	2	417,528	5,498	2,945	(643)	(2,112)	-46%	6,030	226	85	(100)	(26)	-62%	85,154	1,230	4,903,192
Arizona	2	658,186	11,806	9,146	1,835	(2,512)	-22%	11,040	297	185	3	(12)	-38%	90,426	1,517	7,278,621
Nevada	2	258,050	3,772	1,878	(309)	(988)	-50%	3,698	62	40	(22)	(15)	-35%	83,778	1,201	3,080,195
South Carolina	2	375,967	6,064	4,787	(1,015)	(1,277)	-21%	6,037	89	103	80	69	16%	73,022	1,173	5,148,707

Source: Worldometer.com, Transport Futures

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Ohio	3	814,442	14,293	7,149	(505)	(2,386)	-50%	10,060	156	67	(33)	(15)	-57%	69,675	861	11,689,615
Washington	3	289,361	6,615	2,301	(21)	(1,909)	-65%	4,002	92	32	(11)	(18)	-65%	37,999	526	7,615,063
Mississippi	3	248,189	3,255	2,342	394	167	-28%	5,411	98	55	14	15	-44%	83,393	1,818	2,976,189
Illinois	3	1,059,324	15,415	6,642	(10)	(2,635)	-57%	19,873	266	149	42	(18)	-44%	83,597	1,568	12,671,873
Michigan	3	579,574	10,140	3,001	(294)	(907)	-70%	14,550	275	39	(136)	(1)	-86%	58,034	1,457	9,987,209
Missouri	3	469,136	6,539	1,959	1,959	1,959	-70%	6,786	174	16	16	16	-91%	76,439	1,106	6,137,553
Wisconsin	3	518,251	7,989	2,269	(443)	(1,205)	-72%	5,322	120	32	(10)	(8)	-73%	89,009	914	5,822,701
Utah	3	320,102	4,597	2,543	(199)	(1,250)	-45%	1,472	30	12	1	(10)	-60%	99,846	459	3,205,934
Arkansas	3	267,635	4,304	3,124	633	180	-27%	4,263	147	35	(7)	(5)	-76%	88,685	1,413	3,017,747
Other	3	617,998	11,687	8,968	7,319	(2,719)	-23%	10,899	186	83	(85)	20	-55%	72,816	1,214	2,764,129
Indiana	4	583,160	8,460	4,666	291	(1,429)	-45%	9,246	165	44	5	(25)	-73%	86,622	1,373	6,732,546
Colorado	4	371,458	6,439	2,281	(122)	(906)	-65%	5,343	267	27	(4)	(9)	-90%	64,503	928	5,758,981
Virginia	4	422,634	5,798	4,795	(499)	(443)	-17%	5,656	96	30	(44)	(7)	-69%	49,515	663	8,535,562
Iowa	4	303,120	5,451	1,290	(217)	(954)	-76%	4,257	196	6	(13)	(53)	-97%	96,074	1,349	3,155,131
Kentucky	4	321,270	5,705	3,925	(138)	(812)	-31%	3,061	54	19	(32)	6	-65%	71,910	685	4,467,477
Oklahoma	4	348,044	5,232	3,538	396	(1,694)	-32%	2,925	62	43	9	12	-31%	87,957	739	3,956,946
Minnesota	4	443,562	8,946	1,627	46	(747)	-82%	5,918	101	33	(10)	(15)	-67%	78,651	1,049	5,639,743
Kansas	4	258,523	7,002	3,981	3,981	901	-43%	3,502	193	147	147	26	-24%	88,738	1,202	2,913,351
New Mexico	4	161,805	3,665	1,262	(162)	(375)	-66%	2,874	48	38	9	8	-21%	77,167	1,371	2,096,906
Oregon	4	131,258	1,806	1,012	(125)	(750)	-44%	1,758	54	21	(8)	14	-61%	31,120	417	4,218,066
Idaho	4	154,470	2,298	1,112	118	27	-52%	1,603	35	12	(15)	6	-66%	86,438	897	1,787,063
South Dakota	4	104,937	2,020	425	108	(23)	-79%	1,629	54	15	5	3	-72%	118,619	1,841	884,627
Nebraska	4	180,910	3,440	779	(153)	(244)	-77%	1,837	108	19	4	19	-82%	93,522	950	1,934,391
New Hampshire	4	55,500	1,266	722	69	(169)	-43%	908	24	11	(1)	(8)	-54%	40,817	668	1,359,843
West Virginia	4	106,649	2,486	1,430	603	(466)	-42%	1,733	46	31	-	(5)	-33%	59,509	967	1,792,229
Maine	4	32,781	2,456	823	15	41	-66%	477	41	16	8	(25)	-61%	24,387	355	1,344,330
Vermont	4	9,734	245	161	(44)	(55)	-34%	163	6	1	(3)	-	-83%	15,600	261	624,007
North Dakota	4	95,599	2,270	221	(22)	(61)	-90%	1,373	37	8	-	(3)	-78%	125,448	1,802	762,045
Hawaii	4	24,058	354	150	(25)	(114)	-58%	318	14	-	(6)	(4)	-100%	16,992	225	1,415,828
Wyoming	4	48,909	1,260	208	(204)	(271)	-83%	522	33	-	-	-	-100%	84,507	902	578,769
Montana	4	88,635	1,642	525	68	(293)	-68%	1,086	37	9	1	(2)	-76%	82,931	1,016	1,068,733
Alaska	4	49,835	1,453	300	(32)	(103)	-79%	228	18	1	(1)	1	-94%	68,123	312	731,588

Source: Worldometer.com, Transport Futures

Exhibit 5

