

# COVID-19 Statistical Review

Today's Analysis: Data from December 13, 2020

*Sunday was another modestly good day, better than Saturday concerning deaths and worse for deaths.*

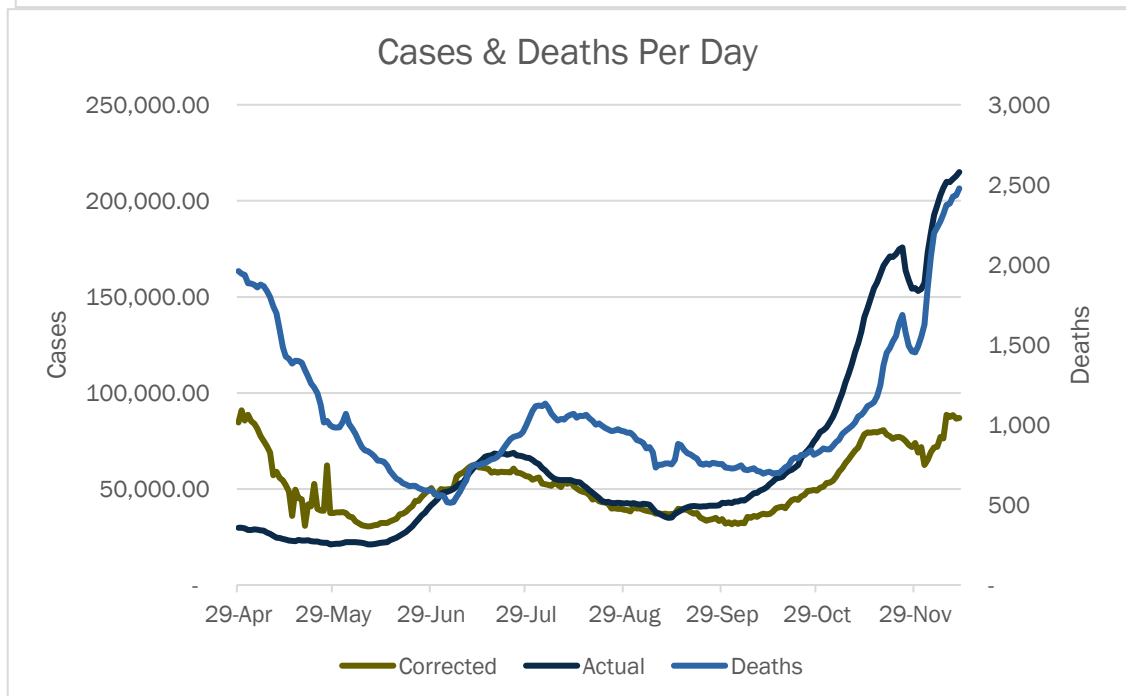
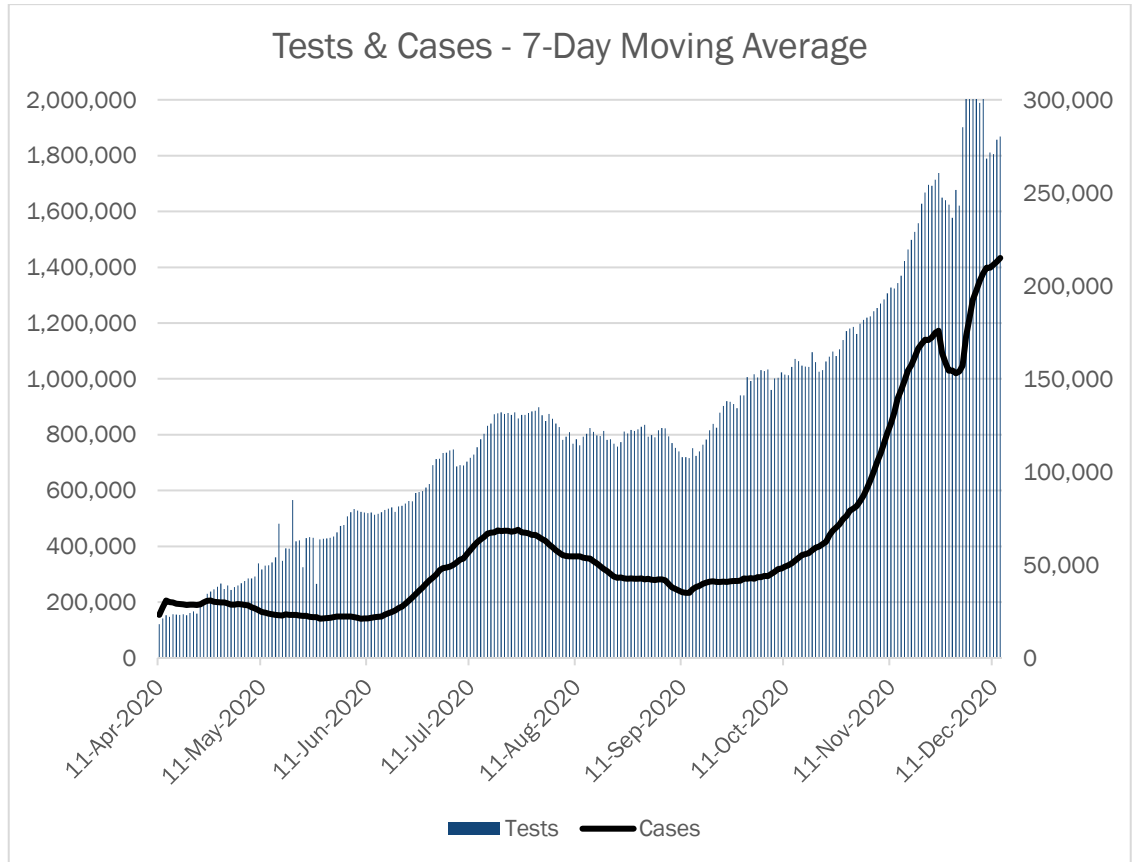
*While the numbers appear to be heading for some sort of inflection, 2020 history suggests that even an immediate inflection will not create a decline to reach 'comfortable numbers before March. While this bug has not proven to be nearly as lethal as originally feared, it has proven to be frustratingly persistent. It is clear that the main challenge, at least for the first half of 202, is to find a way to live with and manage the risk with minimal disruption of lives and the economy. We are hopeful that the vaccines will make that task easier. However, despite periods of tight controls and surprisingly consistent masking and distancing, the current state of the contagion shows us how difficult it is to prevent the spread of the bug.*

*It is unnatural and very uncomfortable for Americans, any humans, to accept such a helpless state. Yet, our long experience with Coronus viruses, including the common cold, should have taught us the futility of sustaining protection against exposure. Yes, the earlier strict lockdowns did apparently slow the spread of the disease. We are experiencing this, our second follow-on surge, because our society can not, and will not, sustain such isolation. That is not to say we are helpless. It just says the emphasis should be on the equation's health care side, not that regulatory side. Develop a vaccine, keep improving the care of the sick, ensure that our hospitals have adequate capacity. All that can be accomplished without the interference in our lives by the public health bureaucracy. The latter continues to urge the same policies that logic and statistics have invalidated. The is in abject contrast to the steady progress made by the health care providers. We need to distinguish between health care PROVIDERS and health care REGULATORS.*

The former have saved countless lives while the latter have simply substituted the deliberations of a few 'experts' for the common sense of 331 million Americans. You will find proof of the futility of regulation in the consistency of the current regulations. Allow a garden center to entertain visitors but not a gym? Allow food service in a plastic walled tent but not in the building next to it? Next time you notice such things, ask yourself how the state regulators can be so wrong in such small things and be right in the big things. The history of our economy is damning proof of the low efficacy of centrally planned economic regulation. Why would centrally-planned regulation of how we breathe be any different?

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**Exhibit 1**



Source: *Worldometer.com, Transport Futures*

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	86,725	4,634	5.3%	16,667	333,333	127	24	9	-	11	6	0	0
S. Korea	Recovery	42,766	580	1.4%	1,199	90,909	950	1,030	9	2	80	399	-4	-3
Italy	Falling	1,843,712	64,520	3.5%	33	936	40,902	17,938	919	484	(1,965)	(949)	-165	-80
Iran	Falling	1,108,269	52,196	4.7%	76	1,618	13,843	7,451	480	247	(750)	(4,110)	26	-47
Germany	Rising	1,338,483	22,406	1.7%	63	3,745	28,179	17,891	622	235	(3,925)	3,141	-116	51
France	Falling	2,376,852	57,911	2.4%	27	1,129	86,852	11,533	1,495	150	(2,414)	511	-44	-24
UK	Rising	1,849,403	64,170	3.5%	37	1,060	33,470	18,447	980	144	(3,055)	1,175	-375	-87
Norway	Falling	41,003	387	0.9%	133	14,085	717	200	16	-	(164)	(50)	0	0
Netherlands	Rising	613,487	10,048	1.6%	28	1,706	11,119	9,884	234	29	804	3,105	-24	4
Sweden	Falling	320,098	7,514	2.3%	32	1,348	3,180	-	185	-	-	-	0	0
USA	Rising	16,737,267	306,459	1.8%	20	1,083	101,461	187,901	2,974	1,379	(32,397)	14,040	-930	303
Spain	Falling	1,741,439	47,624	2.7%	27	982	25,595	-	961	-	-	-	0	0
Switzerland	Falling	373,831	5,985	1.6%	23	1,451	21,926	-	167	9	-	-	-39	-16
Belgium	Falling	605,966	17,902	3.0%	19	649	23,921	2,807	496	110	45	304	10	-2
Denmark	Falling	109,758	941	0.9%	53	6,173	3,552	2,642	22	6	(910)	897	-2	-1
Austria	Falling	322,463	4,473	1.4%	28	2,020	9,586	2,641	126	58	(600)	(100)	-68	-25
Canada	Falling	460,743	13,431	2.9%	82	2,825	7,861	5,891	222	81	(120)	(370)	-18	5
Ireland	Falling	76,185	2,124	2.8%	-	2,336	1,515	429	220	1	181	131	-2	1
Portugal	Falling	348,744	5,559	1.6%	29	1,832	7,497	4,044	86	98	(369)	210	10	11
Australia	Recovery	28,031	908	3.2%	914	28,571	651	6	59	-	(7)	(3)	0	0
Brazil	Falling	6,901,990	181,419	2.6%	31	1,175	53,425	21,395	1,554	276	(22,887)	(4,968)	-414	-45
Malaysia	Recovery	83,475	415	0.5%	390	76,923	2,234	1,229	8	4	(708)	(106)	-5	2
Mexico	Falling	1,241,436	113,704	9.2%	104	1,139	12,253	12,057	1,092	685	(196)	432	-8	92
Singapore	Recovery	58,320	29	0.0%	101	200,000	1,426	7	2	-	(1)	2	0	0
North America	Rising	18,439,446	433,594	2.4%	27	1,152	238,562	205,849	3,881	2,145	(32,713)	14,102	(956)	400
Western Europe	Inflection	11,961,424	311,564	2.6%	34	1,292	208,662	88,456	4,450	1,324	(12,372)	8,375	(815)	(168)
Other	Falling	42,230,675	873,404	2.1%	163	7,868	329,242	244,984	7,030	4,181	(51,174)	(17,865)	(906)	(116)
World	Inflection	72,631,545	1,618,562	2.2%	107	4,817	676,806	539,289	8,843	7,650	(96,259)	4,612	(2,677)	116

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	16,737,267	86,293	187,901	(32,397)	14,040	118%	306,459	2,804	1,379	(930)	303	-51%	50,565	926	331,004,361
Hot-Spot Group 1	1	2,802,097	45,315	37,246	1,720	1,742	-18%	97,809	1,830	350	(76)	101	-81%	57,134	1,357	2,096,906
Hot-Spot Group 2	2	6,778,330	99,514	88,578	(10,936)	17,827	-11%	105,626	1,063	453	(264)	63	-57%	22,252	820	4,218,066
Hot-Spot Group 3	3	3,927,440	63,150	29,811	(15,743)	(1,681)	-53%	62,209	965	228	(439)	4	-76%	61,535	851	3,017,747
Hot-Spot Group 4	4	3,229,400	52,356	32,266	(7,438)	(3,848)	-38%	40,815	915	348	(151)	135	-62%	67,809	652	1,787,063
New York	1	813,788	10,868	9,876	(640)	1,749	-9%	35,587	764	87	8	42	-89%	41,832	1,829	19,453,968
New Jersey	1	410,160	7,126	4,766	(44)	(2,360)	-33%	17,896	458	30	(31)	7	-93%	46,178	2,015	8,882,395
Massachusetts	1	290,578	6,675	4,853	(436)	26	-27%	11,349	252	42	(8)	(9)	-83%	42,159	1,647	6,892,405
Pennsylvania	1	496,398	13,318	9,876	(153)	2,121	-26%	12,639	294	120	(68)	65	-59%	38,775	987	12,801,381
Louisiana	1	268,613	5,326	4,422	4,422	476	-17%	6,818	126	51	51	15	-60%	57,781	1,467	4,648,783
Connecticut	1	146,761	8,129	-	-	-	-100%	5,363	125	-	-	-	-100%	41,164	1,504	3,565,242
Maryland	1	234,647	3,792	2,638	(900)	(5)	-30%	5,117	77	17	(19)	(9)	-78%	38,812	846	6,045,713
Rhode Island	1	70,818	1,717	-	-	-	-100%	1,509	27	-	-	-	-100%	66,850	1,424	1,059,367
District Of Columbia	1	24,874	392	231	(55)	(33)	-41%	715	19	2	(2)	-	-89%	35,245	1,013	705,739
Delaware	1	45,460	1,058	584	(474)	(232)	-45%	816	69	1	(7)	(10)	-99%	46,685	838	973,792
California	2	1,588,180	37,143	33,176	3,962	4,805	-11%	21,047	216	73	(50)	18	-66%	40,195	533	39,511,060
Florida	2	1,125,931	15,300	8,958	(1,619)	522	-41%	19,866	276	81	10	(12)	-71%	52,423	925	21,477,832
Texas	2	1,487,369	20,984	8,542	(12,442)	(909)	-59%	24,615	322	101	(115)	31	-69%	51,296	849	28,995,746
Georgia	2	542,838	6,447	4,798	(1,649)	2,764	-26%	10,076	122	1	(43)	(12)	-99%	51,127	949	10,617,138
Tennessee	2	454,305	11,352	11,352	4,861	8,280	0%	5,462	100	62	(11)	24	-38%	66,524	800	6,829,015
North Carolina	2	436,595	6,819	6,819	666	381	0%	5,823	82	27	(17)	-	-67%	41,628	555	10,487,897
Alabama	2	295,631	4,735	2,790	(1,276)	502	-41%	4,102	81	-	(16)	(12)	-100%	60,294	837	4,903,192
Arizona	2	408,442	8,077	5,853	(2,224)	477	-28%	7,357	172	35	(42)	10	-80%	56,115	1,011	7,278,621
Nevada	2	186,833	3,772	2,882	(851)	371	-24%	2,539	50	19	(22)	5	-62%	60,657	824	3,080,195
South Carolina	2	252,206	3,570	3,408	(164)	634	-5%	4,739	80	54	42	11	-33%	48,984	920	5,148,707

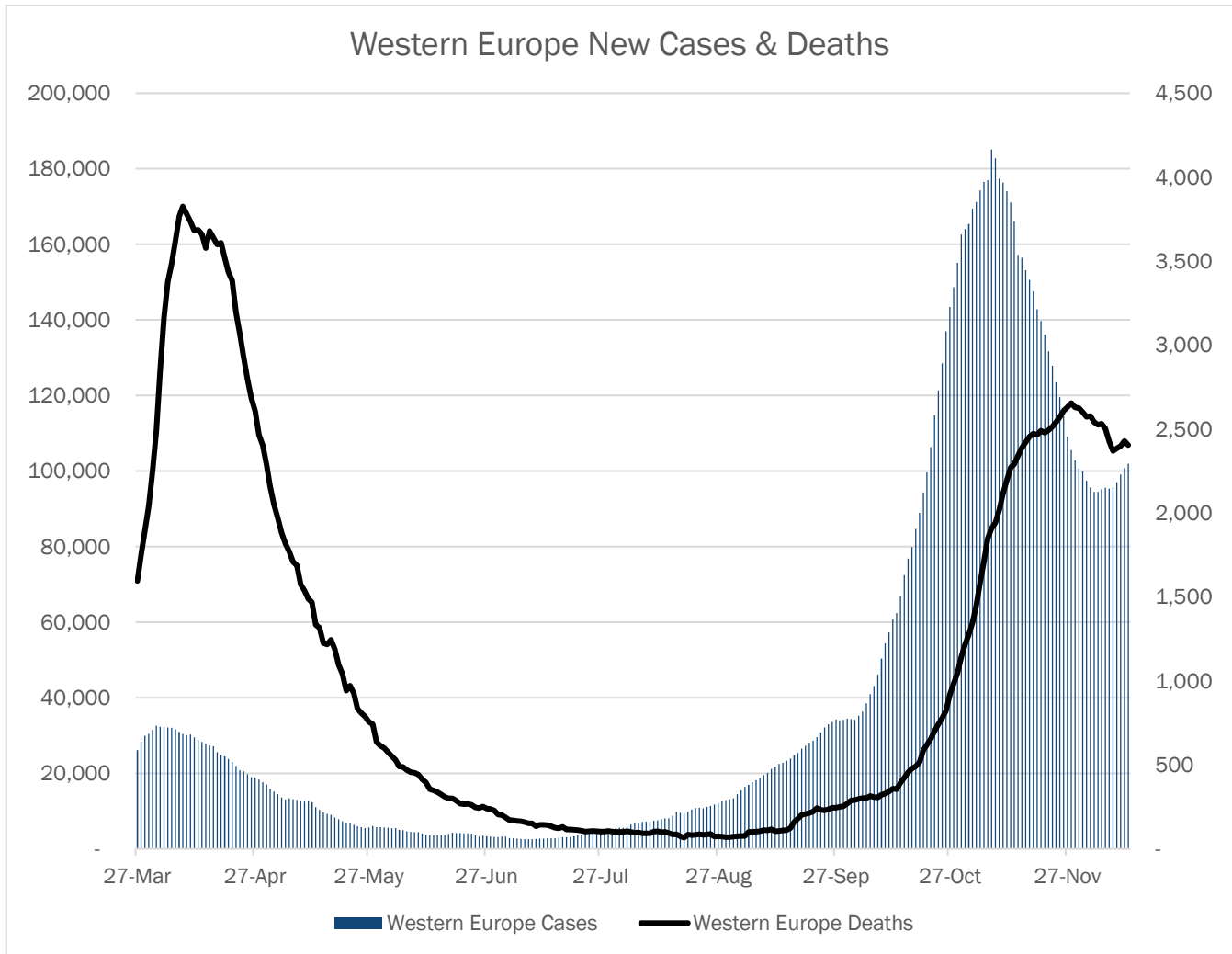
Source: Worldometer.com, Transport Futures

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	562,727	12,720	9,266	(1,986)	1,674	-27%	7,503	138	19	(37)	4	-86%	48,141	642	11,689,615
Washington	3	207,945	6,615	1,774	(1,595)	461	-73%	3,013	53	2	(15)	2	-96%	27,308	396	7,615,063
Mississippi	3	179,447	2,746	1,500	(1,165)	27	-45%	4,199	58	19	(37)	7	-67%	60,295	1,411	2,976,189
Illinois	3	848,904	15,415	7,216	(1,521)	(382)	-53%	15,339	235	107	(58)	8	-54%	66,991	1,210	12,671,873
Michigan	3	465,159	10,140	-	(4,813)	-	-100%	11,198	233	-	(233)	-	-100%	46,577	1,121	9,987,209
Missouri	3	366,786	6,539	2,471	(17)	(703)	-62%	4,911	132	8	(7)	1	-94%	59,762	800	6,137,553
Wisconsin	3	436,773	7,989	2,757	(1,302)	(34)	-65%	4,056	92	15	(35)	(2)	-84%	75,016	697	5,822,701
Utah	3	233,904	4,588	2,083	(1,609)	(480)	-55%	1,055	26	17	4	17	-35%	72,959	329	3,205,934
Arkansas	3	185,702	2,827	1,450	(1,178)	(92)	-49%	2,945	40	34	(2)	(6)	-15%	61,535	976	3,017,747
Other	3	440,093	10,048	1,294	(557)	(2,152)	-87%	7,990	186	7	(19)	(27)	-96%	50,565	926	8,241,190
Indiana	4	425,434	8,460	5,898	(1,503)	(700)	-30%	6,805	126	47	(38)	12	-63%	63,194	1,011	6,732,546
Colorado	4	288,193	6,439	2,559	(1,402)	(675)	-60%	3,958	267	87	62	82	-67%	50,044	687	5,758,981
Virginia	4	281,909	4,398	3,294	(883)	(586)	-25%	4,411	54	2	(37)	(1)	-96%	33,028	517	8,535,562
Iowa	4	256,361	5,451	1,120	(509)	(996)	-79%	3,213	102	1	(14)	(16)	-99%	81,254	1,018	3,155,131
Kentucky	4	223,104	4,314	2,444	(1,096)	(123)	-43%	2,207	37	15	(9)	5	-59%	49,937	494	4,467,477
Oklahoma	4	237,668	4,827	4,332	349	1,091	-10%	2,064	35	22	(13)	-	-37%	60,063	522	3,956,946
Minnesota	4	378,823	8,946	3,425	(1,005)	(2,156)	-62%	4,503	101	85	18	21	-16%	67,172	798	5,639,743
Kansas	4	187,821	7,002	62	42	62	-99%	2,072	131	-	-	-	-100%	64,470	711	2,913,351
New Mexico	4	119,800	3,665	1,442	(351)	210	-61%	1,957	44	44	20	33	0%	57,134	933	2,096,906
Oregon	4	93,853	1,806	1,014	(405)	(239)	-44%	1,155	30	5	(7)	(1)	-83%	22,252	274	4,218,066
Idaho	4	121,179	2,298	547	(475)	(258)	-76%	1,175	35	6	(12)	3	-83%	67,809	658	1,787,063
South Dakota	4	91,038	2,020	631	(104)	(56)	-69%	1,259	54	16	(17)	(3)	-70%	102,907	1,423	884,627
Nebraska	4	148,861	3,440	1,173	362	1,173	-66%	1,373	31	8	(14)	8	-74%	76,954	710	1,934,391
New Hampshire	4	30,956	1,187	712	(72)	79	-40%	603	19	3	(7)	(2)	-84%	22,767	443	1,359,843
West Virginia	4	63,217	1,514	1,066	(448)	(359)	-30%	968	31	2	(26)	(7)	-94%	35,274	540	1,792,229
Maine	4	15,923	2,456	303	(111)	82	-88%	257	20	-	(7)	-	-100%	11,846	191	1,344,330
Vermont	4	5,753	181	127	42	6	-30%	95	4	-	(2)	-	-100%	9,220	152	624,007
North Dakota	4	87,871	2,270	281	(95)	(196)	-88%	1,152	37	-	(22)	(6)	-100%	115,307	1,512	762,045
Hawaii	4	19,235	354	87	(110)	(17)	-75%	274	11	3	1	2	-73%	13,585	194	1,415,828
Wyoming	4	39,360	1,260	453	331	77	-64%	321	27	-	-	-	-100%	68,008	555	578,769
Montana	4	73,303	1,642	659	(115)	(147)	-60%	818	37	2	(9)	-	-95%	68,586	765	1,068,733
Alaska	4	39,738	1,453	637	120	(120)	-56%	175	18	-	(18)	-	-100%	54,321	239	731,588

Source: Worldometer.com, Transport Futures

Exhibit 5



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