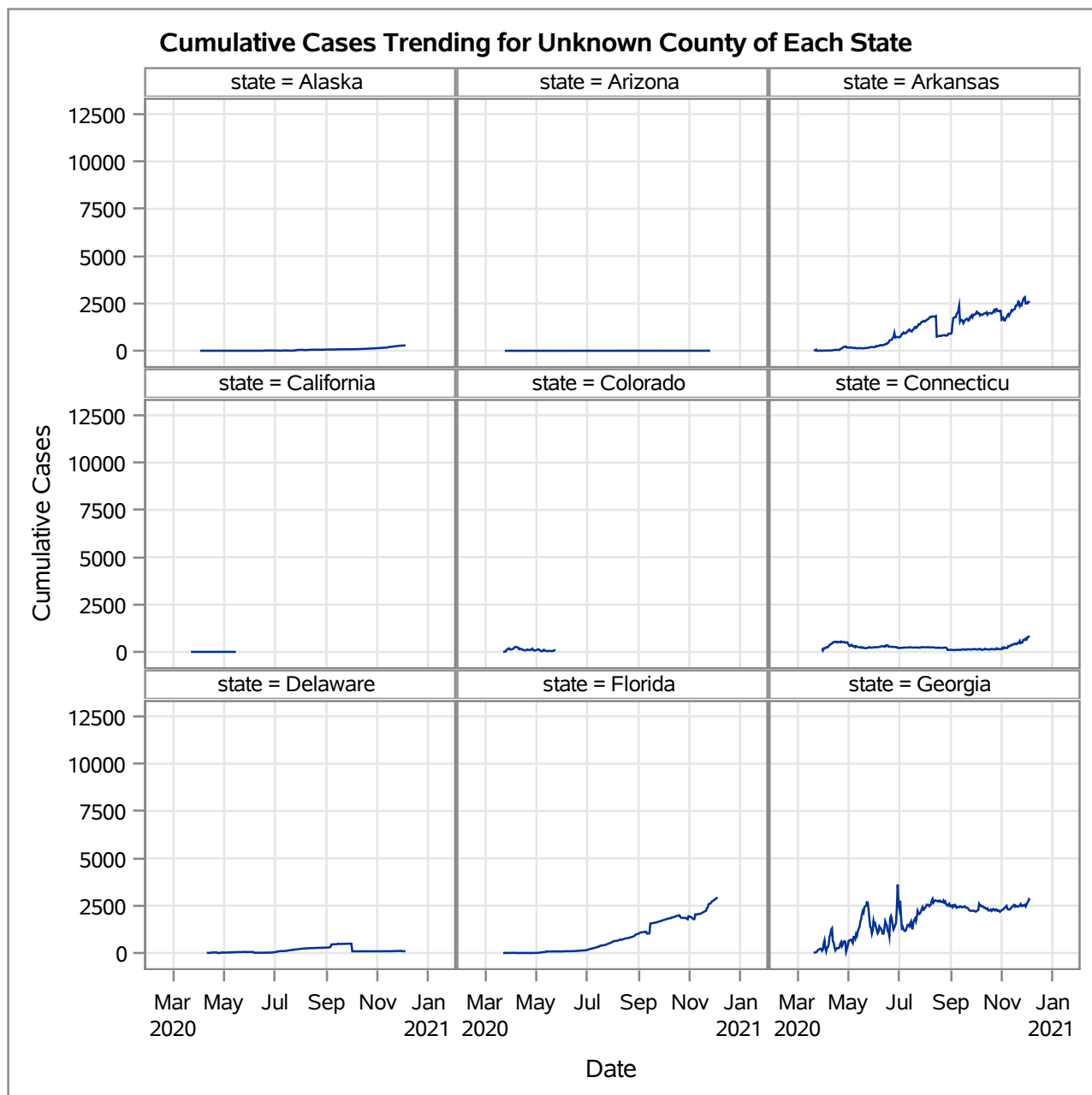
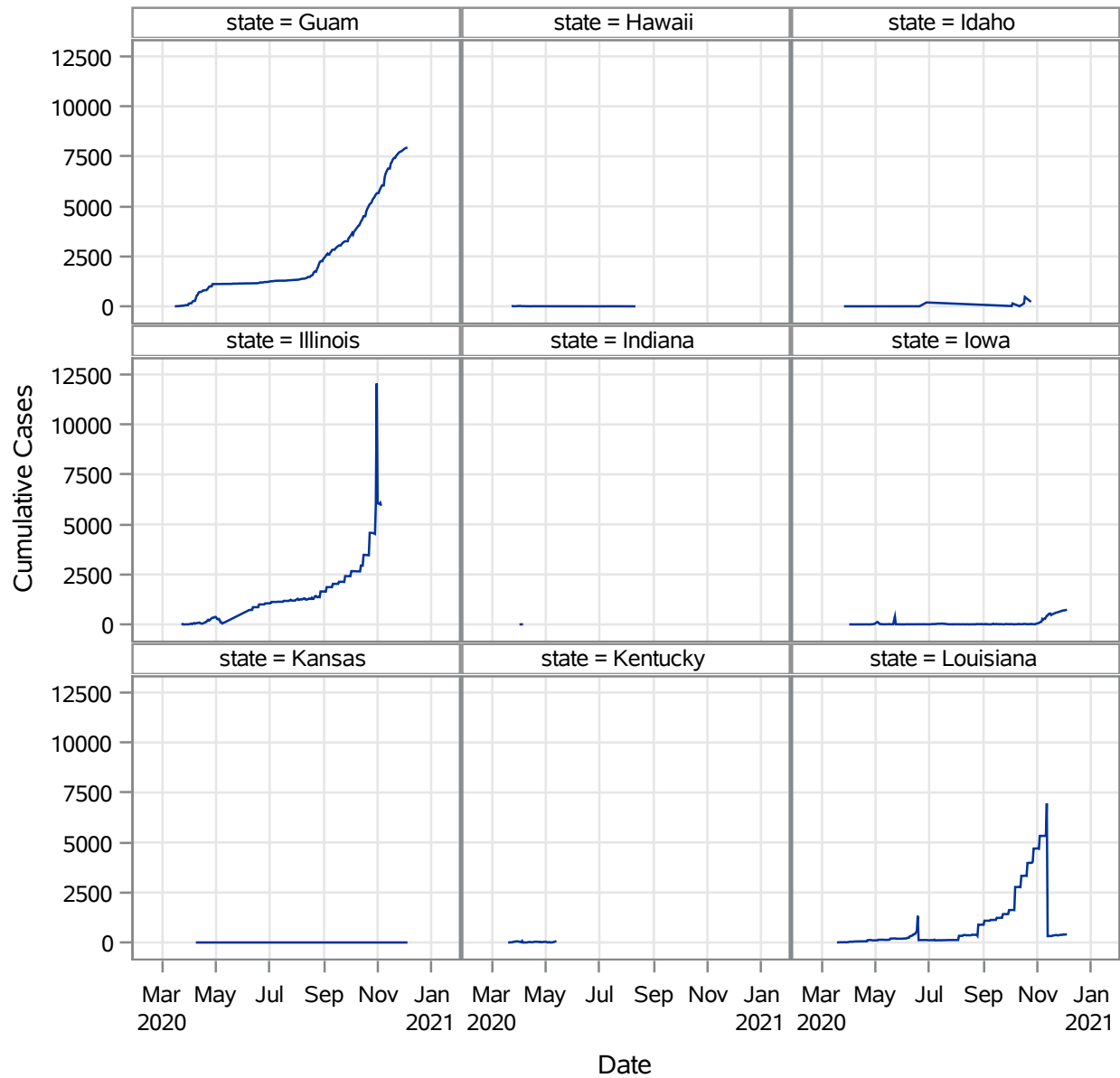
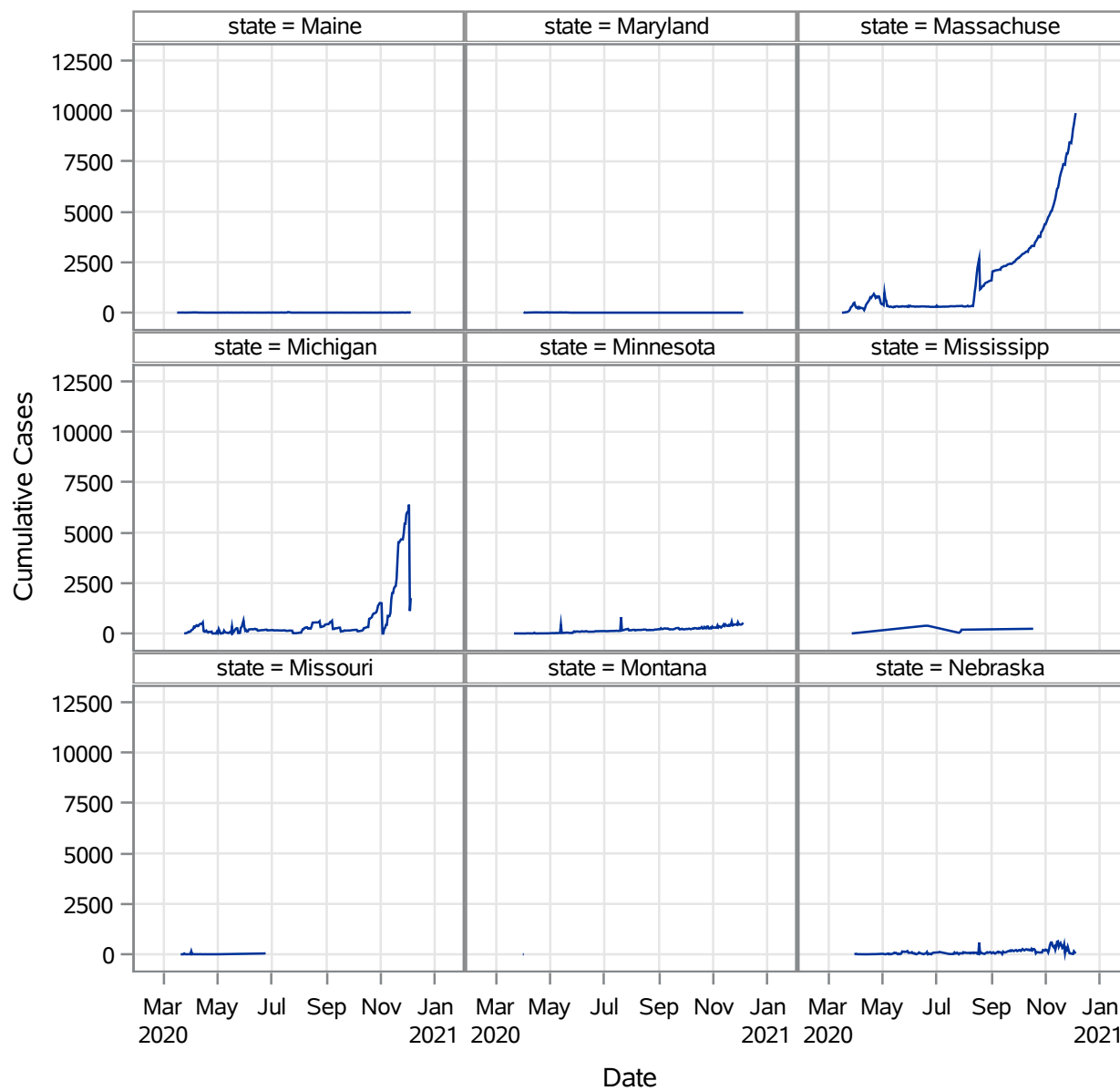


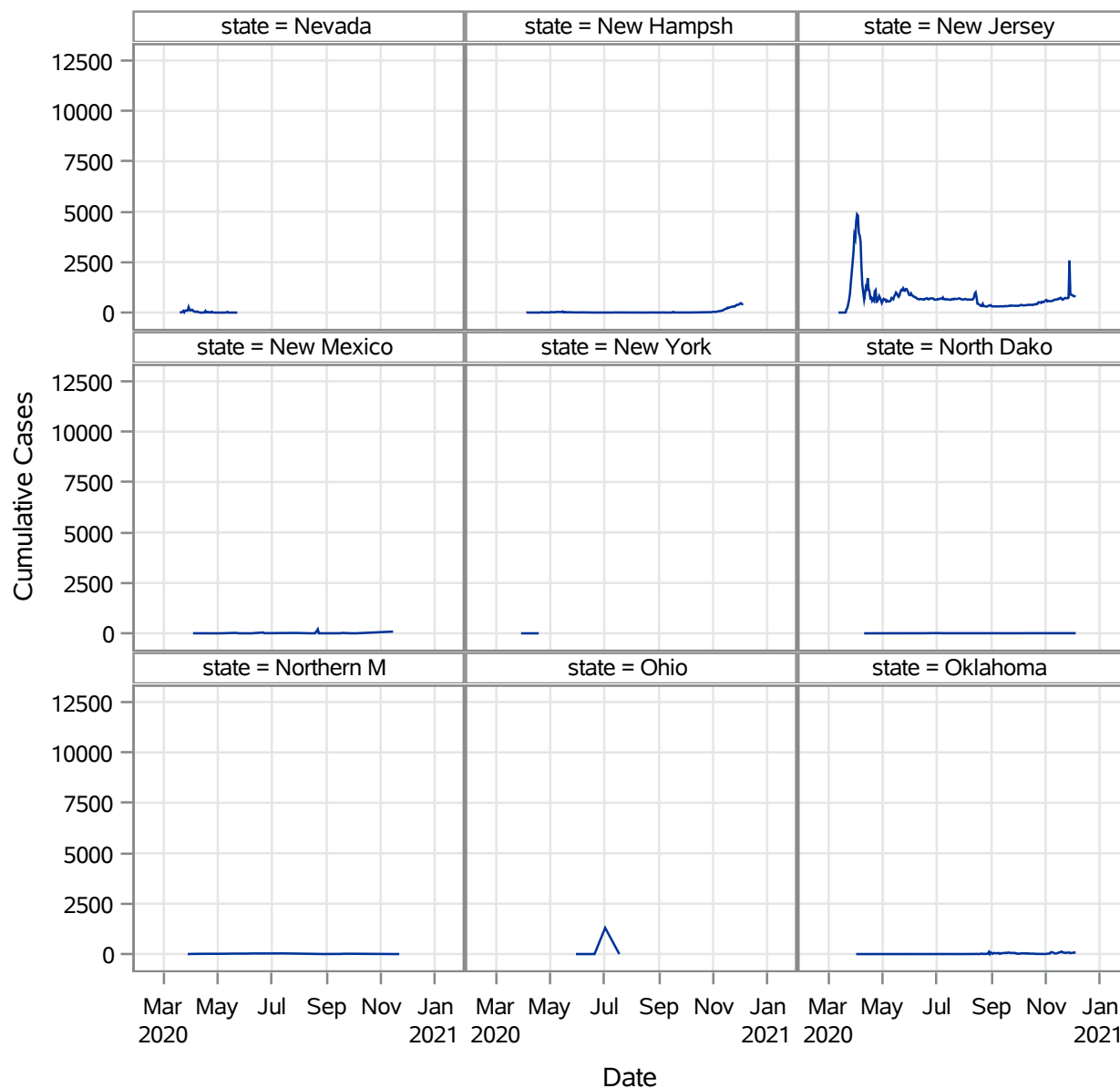
Missing Value Analysis - COVID-19 Raw Data**The MEANS Procedure**

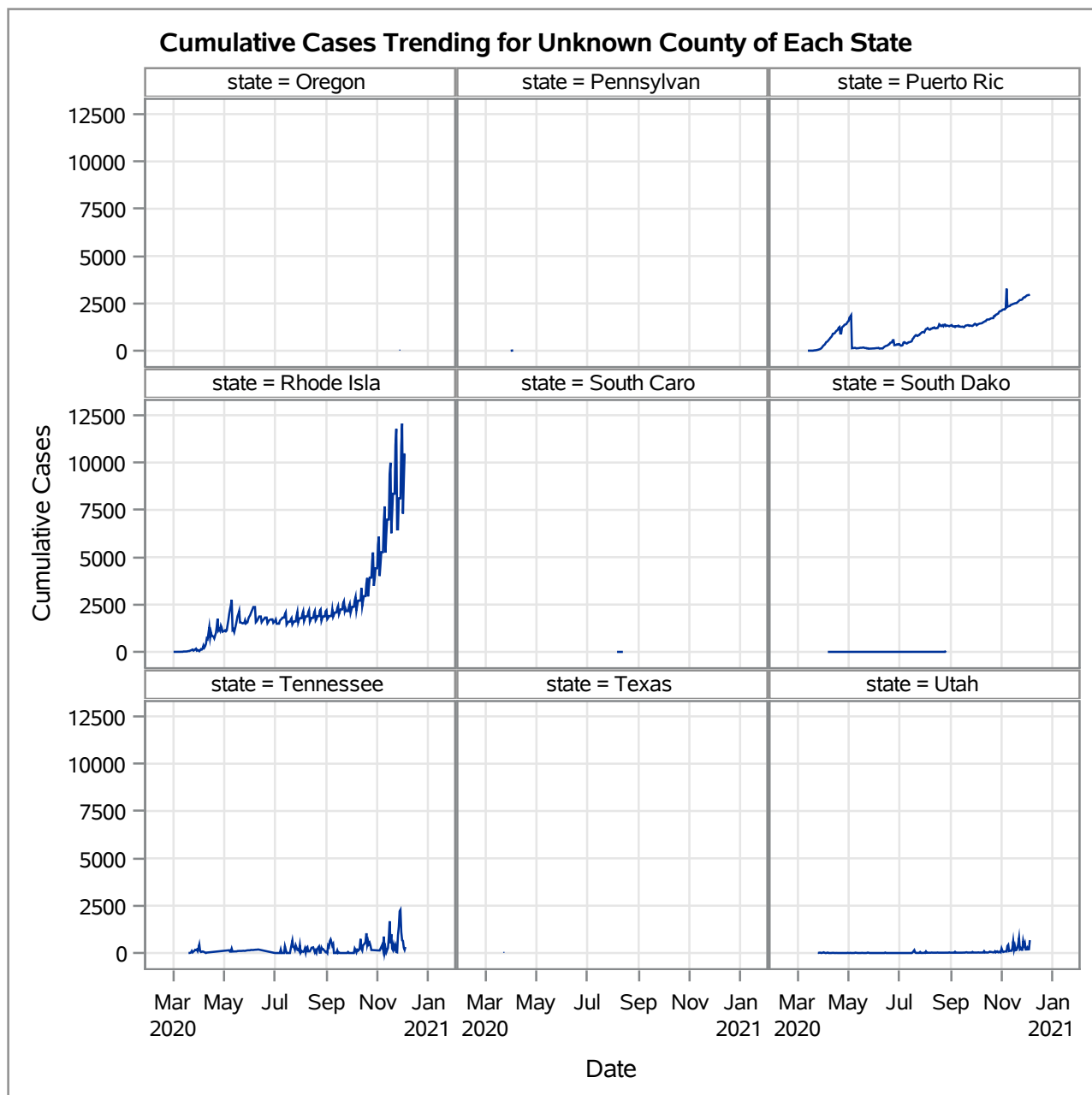
Variable	N	N Miss	Mean	Minimum	Maximum
cases	800437	0	1589.67	0	439538.00
deaths	783704	16733	48.8153091	0	24346.00
fips	792846	7591	31238.20	1001.00	78030.00

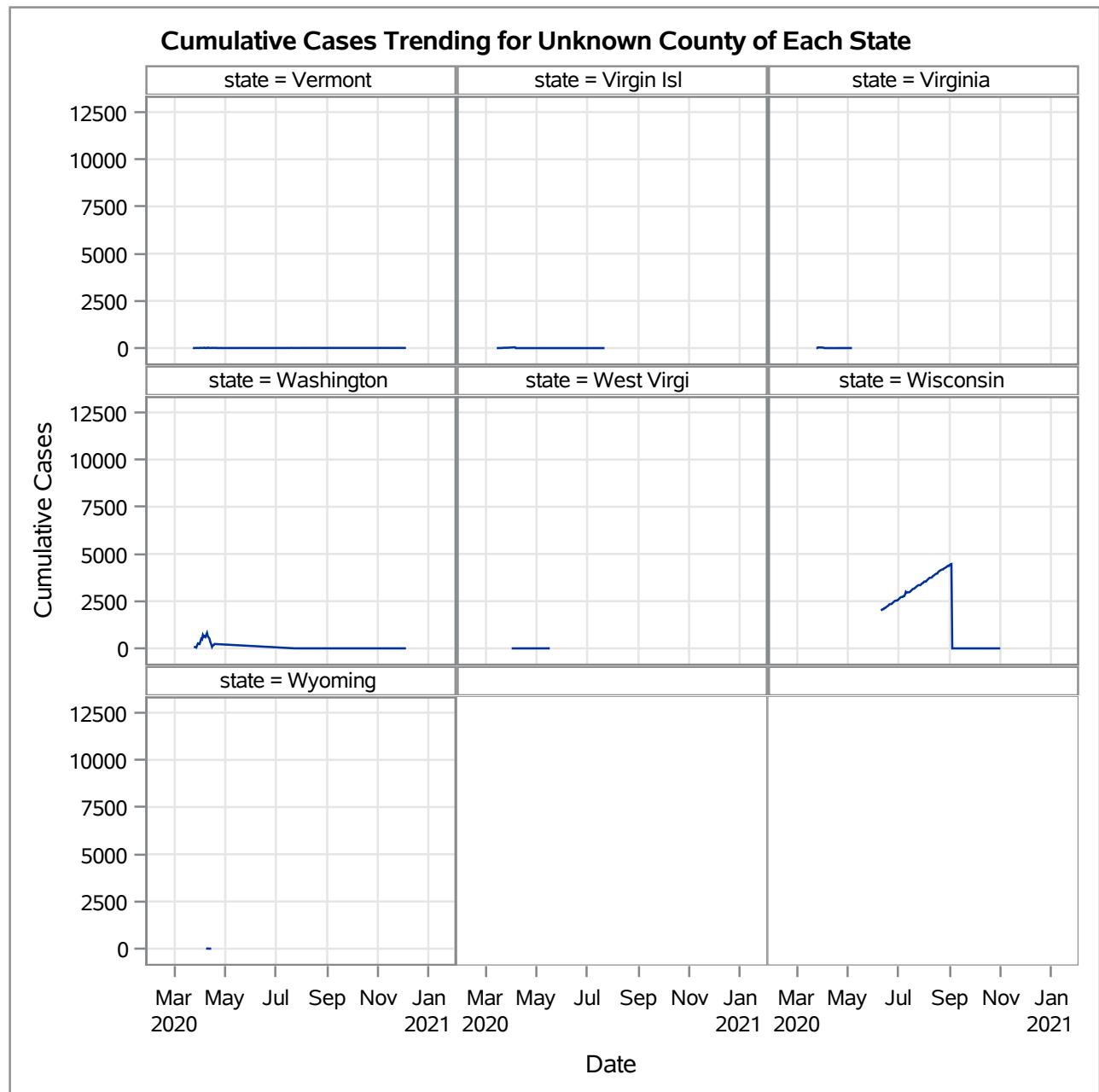


Cumulative Cases Trending for Unknown County of Each State

Cumulative Cases Trending for Unknown County of Each State

Cumulative Cases Trending for Unknown County of Each State

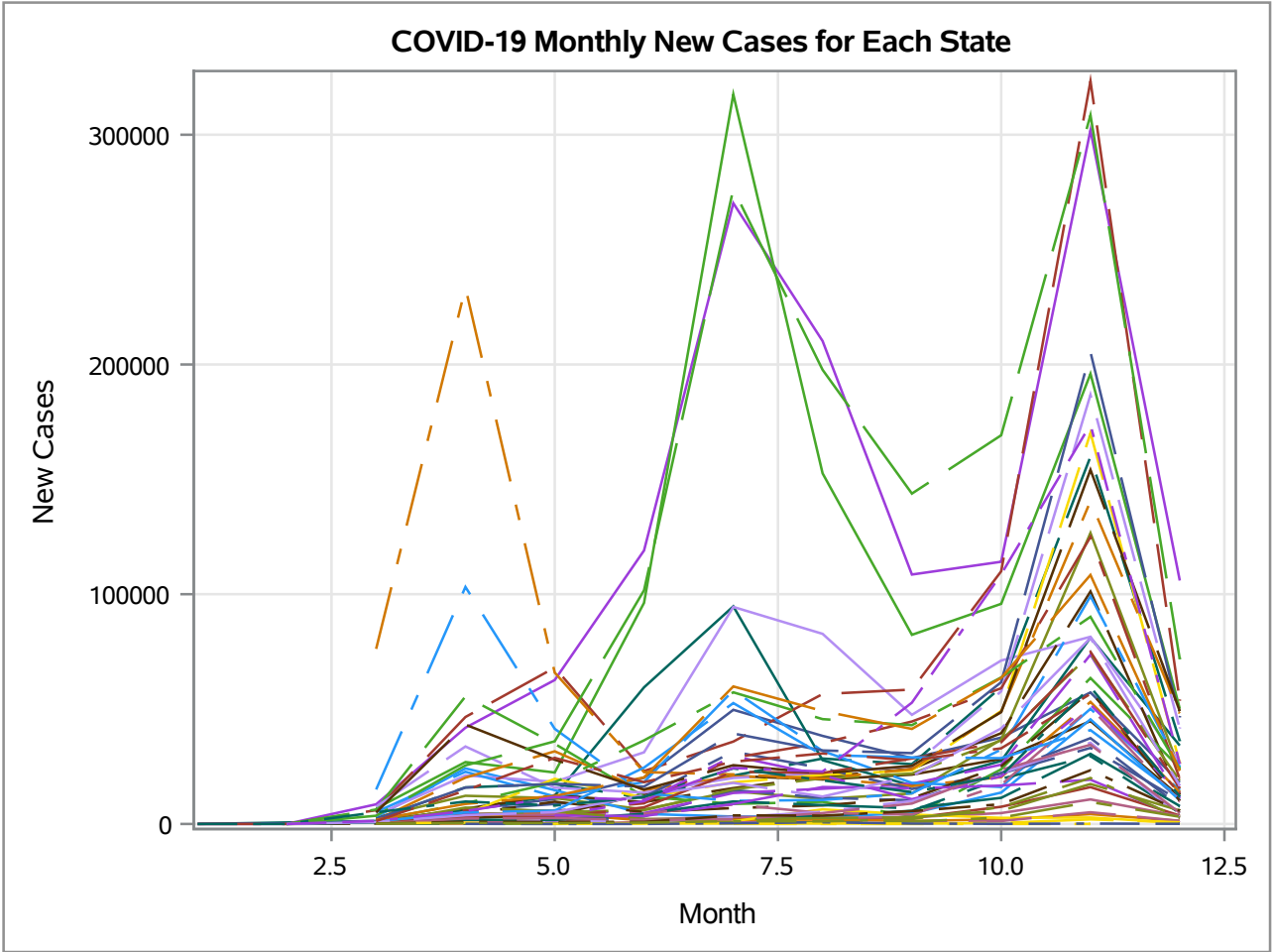


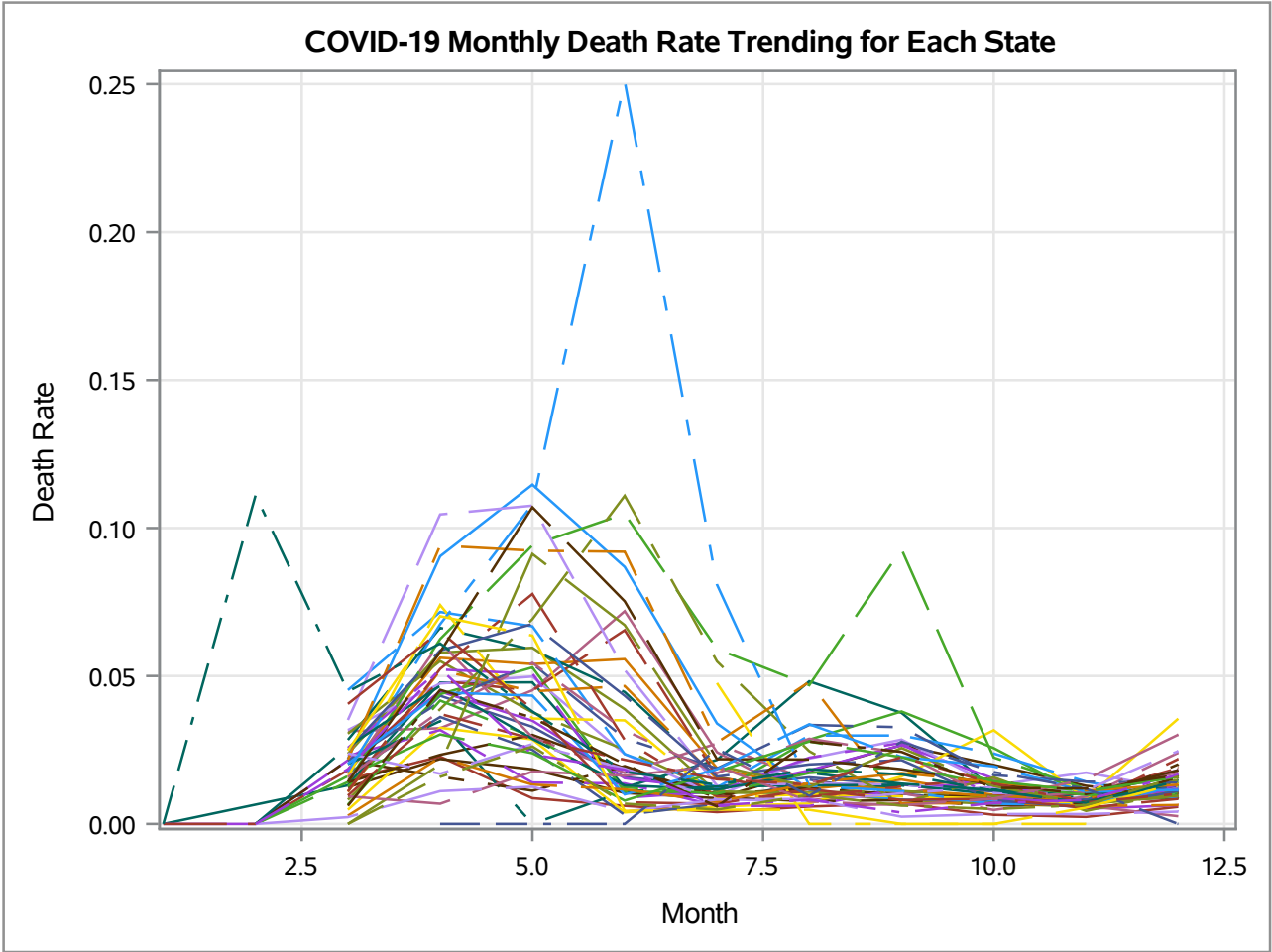


Summary Statistics After Data Cleaning

The MEANS Procedure

Variable	N	Minimum	Maximum	Mean	Std Dev
new_cases	14830	0	24984.00	984.8842212	1829.59
new_deaths	14615	0	1876.00	19.1685255	54.3021883





COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
Alabama	2020	3	1008	14	.
		4	6069	263	.
		5	10876	357	.
		6	20095	318	.
		7	49676	629	.
		8	38334	603	.
		9	28649	379	.
		10	37578	413	.
		11	57239	610	.
		12	18065	294	.
Alaska	2020	3	133	2	.
		4	220	5	.
		5	115	1	.
		6	654	4	.
		7	2509	10	.
		8	2386	14	.
		9	2613	18	.
		10	7484	23	.
		11	16025	38	.
		12	3649	21	.
Arizona	2020	1	1	0	.
		3	1302	17	.
		4	6345	303	.
		5	12288	588	.
		6	59463	737	.
		7	94709	2050	.
		8	27760	1338	.
		9	16644	625	.
		10	27451	321	.
		11	81083	661	.
		12	34140	300	.
Arkansas	2020	3	563	7	.
		4	2551	56	.
		5	3954	73	.
		6	12993	136	.
		7	20899	182	.
		8	19361	346	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		9	21465	571	.
		10	28293	565	.
		11	44786	577	.
		12	11921	113	.
California	2020	1	3	0	.
		2	25	0	.
		3	8555	184	.
		4	41888	1875	.
		5	62654	2186	.
		6	119029	1840	.
		7	270200	3137	.
		8	210198	3800	.
		9	108573	2889	.
		10	114123	1752	.
		11	301944	1547	.
		12	105954	667	.
Colorado	2020	3	2865	68	.
		4	12265	710	.
		5	11256	670	.
		6	6314	245	.
		7	14253	151	.
		8	10848	113	.
		9	13298	108	.
		10	36747	248	.
		11	126657	749	.
		12	23622	354	.
Connecticu	2020	3	3051	67	.
		4	24187	2188	.
		5	14729	1689	.
		6	4363	379	.
		7	3239	110	.
		8	3200	37	.
		9	4630	38	.
		10	13667	108	.
		11	45527	402	.
		12	10312	127	.
Delaware	2020	3	319	10	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		4	4390	142	.
		5	4738	214	.
		6	1989	143	.
		7	3133	76	.
		8	2595	21	.
		9	2958	30	.
		10	4738	72	.
		11	10683	65	.
		12	3457	9	.
District o	2020	3	495	9	.
		4	3828	215	.
		5	4478	242	.
		6	1526	85	.
		7	1799	34	.
		8	1866	22	.
		9	1334	20	.
		10	1940	19	.
		11	4286	34	.
		12	1320	15	.
Florida	2020	3	6742	85	.
		4	26936	1181	.
		5	22398	1185	.
		6	96240	1054	.
		7	317550	3336	.
		8	152597	4345	.
		9	82324	3129	.
		10	95812	2456	.
		11	195944	1828	.
		12	50156	485	.
Georgia	2020	3	3938	125	.
		4	21116	1002	.
		5	18347	914	.
		6	31186	737	.
		7	94467	902	.
		8	82747	1829	.
		9	47504	1354	.
		10	71132	930	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		11	81473	1413	.
		12	26430	307	.
Hawaii	2020	3	209	1	.
		4	400	13	.
		5	35	1	.
		6	256	1	.
		7	1190	7	.
		8	6357	44	.
		9	4108	66	.
		10	2652	84	.
		11	2799	24	.
		12	478	17	.
Idaho	2020	3	526	9	.
		4	1494	54	.
		5	839	21	.
		6	3266	10	.
		7	14734	100	.
		8	11400	171	.
		9	10312	106	.
		10	22226	159	.
		11	37361	310	.
		12	7611	98	.
Illinois	2020	1	2	0	.
		2	1	0	.
		3	5989	109	.
		4	46552	2254	.
		5	68062	3068	.
		6	23017	1507	.
		7	35859	572	.
		8	56557	545	.
		9	58487	643	.
		10	109984	1043	.
		11	323315	3276	.
		12	53627	1011	.
Indiana	2020	3	2181	62	.
		4	15922	1055	.
		5	17341	1021	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		6	11306	504	.
		7	21051	327	.
		8	28478	332	.
		9	26028	337	.
		10	59532	696	.
		11	159855	1389	.
		12	36096	484	.
Iowa	2020	3	498	7	.
		4	6638	155	.
		5	12492	376	.
		6	9530	180	.
		7	15596	157	.
		8	20499	247	.
		9	23993	238	.
		10	39519	358	.
		11	101182	708	.
		12	12702	256	.
Kansas	2020	3	435	10	.
		4	3874	123	.
		5	5579	78	.
		6	4745	65	.
		7	13492	82	.
		8	15308	93	.
		9	17525	211	.
		10	25813	364	.
		11	73662	444	.
		12	11194	149	.
Kentucky	2020	3	590	18	.
		4	4106	226	.
		5	5249	198	.
		6	5977	150	.
		7	15061	165	.
		8	19908	210	.
		9	21942	244	.
		10	36412	341	.
		11	74016	518	.
		12	18880	175	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
Louisiana	2020	3	5216	236	.
		4	22726	1628	.
		5	11978	800	.
		6	18217	430	.
		7	58133	718	.
		8	31761	949	.
		9	17865	534	.
		10	16094	383	.
		11	50108	716	.
		12	14675	127	.
Maine	2020	3	297	5	.
		4	798	49	.
		5	1229	36	.
		6	927	16	.
		7	662	18	.
		8	618	9	.
		9	862	9	.
		10	1273	6	.
		11	5086	47	.
		12	1372	33	.
Maryland	2020	3	1663	18	.
		4	20167	1047	.
		5	31626	1417	.
		6	14697	685	.
		7	20757	317	.
		8	19832	267	.
		9	16476	191	.
		10	20375	190	.
		11	53117	469	.
		12	13833	179	.
Massachuse	2020	2	1	0	.
		3	6284	89	.
		4	55505	3468	.
		5	34878	3283	.
		6	11926	1250	.
		7	8712	515	.
		8	9641	452	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		9	3467	322	.
		10	23782	534	.
		11	63522	757	.
		12	24407	205	.
Michigan	2020	3	7541	265	.
		4	33727	3528	.
		5	15792	1699	.
		6	13652	710	.
		7	20033	260	.
		8	22057	302	.
		9	25131	336	.
		10	57725	604	.
		11	186802	1847	.
		12	41565	757	.
Minnesota	2020	3	629	10	.
		4	4501	333	.
		5	19638	700	.
		6	11458	401	.
		7	18123	161	.
		8	21361	215	.
		9	23273	217	.
		10	49202	422	.
		11	170193	1137	.
		12	26429	326	.
Mississippi	2020	3	938	20	.
		4	5890	243	.
		5	8696	471	.
		6	11726	339	.
		7	31497	591	.
		8	24210	810	.
		9	15235	498	.
		10	21968	362	.
		11	33110	473	.
		12	10189	142	.
Missouri	2020	3	1359	15	.
		4	6222	326	.
		5	5726	445	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		6	8979	255	.
		7	28803	268	.
		8	35249	320	.
		9	44593	564	.
		10	59088	916	.
		11	124962	876	.
		12	19656	431	.
Montana	2020	3	198	4	.
		4	259	9	.
		5	63	0	.
		6	454	5	.
		7	3007	38	.
		8	3464	45	.
		9	5735	76	.
		10	19627	197	.
		11	29507	308	.
		12	4792	50	.
Nebraska	2020	2	13	0	.
		3	186	4	.
		4	4133	66	.
		5	9704	109	.
		6	5164	101	.
		7	6920	62	.
		8	8082	62	.
		9	11212	90	.
		10	25143	156	.
		11	57881	397	.
		12	10091	159	.
Nevada	2020	3	1010	26	.
		4	4043	211	.
		5	3581	182	.
		6	9950	88	.
		7	29561	324	.
		8	21174	474	.
		9	10765	295	.
		10	20761	179	.
		11	51884	370	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		12	13459	160	.
New Hampsh	2020	3	367	3	.
		4	1778	69	.
		5	2500	173	.
		6	1136	126	.
		7	801	44	.
		8	691	17	.
		9	991	7	.
		10	2794	44	.
		11	9543	42	.
		12	3117	34	.
New Jersey	2020	3	15013	267	.
		4	103161	6961	.
		5	41403	4470	.
		6	13302	3339	.
		7	10062	814	.
		8	10431	135	.
		9	13364	148	.
		10	32380	220	.
		11	99131	640	.
		12	24788	312	.
New Mexico	2020	3	315	5	.
		4	3097	118	.
		5	4280	233	.
		6	4456	141	.
		7	8452	145	.
		8	4756	137	.
		9	4086	98	.
		10	17051	141	.
		11	50602	550	.
		12	9761	170	.
New York	2020	3	76216	1661	.
		4	233480	21962	.
		5	65879	6084	.
		6	22567	2076	.
		7	21581	594	.
		8	19757	948	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		9	23889	166	.
		10	48854	342	.
		11	140525	856	.
		12	48154	307	.
North Caro	2020	3	1528	10	.
		4	8993	375	.
		5	18169	535	.
		6	36381	451	.
		7	57299	585	.
		8	45634	786	.
		9	43006	831	.
		10	63796	838	.
		11	90163	887	.
		12	23791	251	.
North Dako	2020	3	126	3	.
		4	943	16	.
		5	1555	42	.
		6	964	18	.
		7	2885	24	.
		8	5347	41	.
		9	10029	104	.
		10	22067	276	.
		11	35336	404	.
		12	3252	80	.
Northern M	2020	7	42	2	.
		8	12	0	.
		9	16	0	.
		10	22	0	.
		11	14	0	.
Ohio	2020	3	2201	55	.
		4	15835	928	.
		5	17479	1181	.
		6	16277	705	.
		7	39367	629	.
		8	31999	644	.
		9	30830	665	.
		10	61709	495	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		11	205366	1128	.
		12	46369	518	.
Oklahoma	2020	3	567	23	.
		4	3057	199	.
		5	2891	112	.
		6	7246	53	.
		7	22699	154	.
		8	22204	261	.
		9	28508	230	.
		10	35586	305	.
		11	74936	406	.
		12	15485	131	.
Oregon	2020	2	1	0	.
		3	690	18	.
		4	1821	85	.
		5	1740	50	.
		6	4446	58	.
		7	9812	114	.
		8	8215	142	.
		9	6830	93	.
		10	11369	130	.
		11	30530	229	.
		12	7789	108	.
Pennsylvan	2020	3	4997	71	.
		4	43229	2511	.
		5	27998	2997	.
		6	15004	1129	.
		7	25575	560	.
		8	22042	480	.
		9	25297	468	.
		10	48674	649	.
		11	154156	1555	.
		12	49101	892	.
Puerto Ric	2020	5	3658	.	.
		6	3462	.	.
		7	8693	.	.
		8	16066	.	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		9	15456	.	.
		10	16696	.	.
		11	19264	.	.
		12	2876	.	.
Rhode Isla	2020	3	416	0	.
		4	7120	143	.
		5	5535	505	.
		6	2158	145	.
		7	2015	40	.
		8	2565	32	.
		9	2884	74	.
		10	5764	74	.
		11	17387	115	.
		12	5861	56	.
South Caro	2020	3	1083	22	.
		4	5013	223	.
		5	5765	250	.
		6	24538	245	.
		7	52621	973	.
		8	29983	1010	.
		9	28976	656	.
		10	28641	558	.
		11	40867	445	.
		12	11748	135	.
South Dako	2020	3	107	1	.
		4	2345	16	.
		5	2544	45	.
		6	1776	29	.
		7	1995	39	.
		8	4743	36	.
		9	8882	56	.
		10	23601	202	.
		11	34473	521	.
		12	4841	146	.
Tennessee	2020	3	1793	5	.
		4	8723	196	.
		5	12181	162	.

COVID-19 Monthly Summary Report

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state	year	month	Total Cases	Total Deaths	Death Rate
		6	20274	237	.
		7	59858	449	.
		8	49165	675	.
		9	41364	712	.
		10	63567	891	.
		11	108379	1223	.
		12	23196	308	.
Texas	2020	2	11	0	.
		3	3579	58	.
		4	25491	771	.
		5	35974	860	.
		6	101711	802	.
		7	276372	4878	.
		8	197674	5508	.
		9	143803	3238	.
		10	169183	2442	.
		11	308522	3414	.
		12	71732	1143	.
Utah	2020	2	1	0	.
		3	871	2	.
		4	3790	42	.
		5	5169	65	.
		6	12534	52	.
		7	17879	147	.
		8	11922	101	.
		9	20863	51	.
		10	41603	139	.
		11	80927	270	.
		12	16640	69	.
Vermont	2020	3	282	7	.
		4	584	41	.
		5	110	7	.
		6	226	1	.
		7	207	1	.
		8	209	1	.
		9	127	0	.
		10	426	0	.

COVID-19 Monthly Summary Report

Tuesday, February 4, 2025 03:05:00 PM 24

state	year	month	Total Cases	Total Deaths	Death Rate
		11	1993	11	.
		12	721	10	.
Virgin Isl	2020	4	66	0	.
		5	4	0	.
		6	20	0	.
		7	316	8	.
		8	733	7	.
		9	180	5	.
		10	57	1	.
		11	168	2	.
		12	69	0	.
Virginia	2020	3	1249	12	.
		4	14602	543	.
		5	28765	827	.
		6	18205	395	.
		7	27086	409	.
		8	30689	409	.
		9	27685	624	.
		10	32927	450	.
		11	56631	412	.
		12	13336	136	.
Washington	2020	1	1	0	.
		2	9	1	.
		3	5052	226	.
		4	9757	595	.
		5	7998	304	.
		6	11726	207	.
		7	24181	320	.
		8	18995	351	.
		9	13843	232	.
		10	21017	235	.
		11	59594	423	.
		12	11913	173	.
West Virgi	2020	3	163	1	.
		4	971	44	.
		5	891	32	.
		6	890	18	.

COVID-19 Monthly Summary Report

Tuesday, February 4, 2025 03:05:00 PM 25

state	year	month	Total Cases	Total Deaths	Death Rate
		7	3729	22	.
		8	3627	101	.
		9	5584	136	.
		10	8605	105	.
		11	23383	280	.
		12	5730	95	.
Wisconsin	2020	2	1	0	.
		3	1350	25	.
		4	5622	295	.
		5	11713	275	.
		6	10501	192	.
		7	24364	153	.
		8	22820	187	.
		9	52802	203	.
		10	108696	768	.
		11	173861	1407	.
		12	26188	437	.
Wyoming	2020	3	121	0	.
		4	440	7	.
		5	344	9	.
		6	584	4	.
		7	1238	6	.
		8	1115	11	.
		9	2106	13	.
		10	7350	37	.
		11	20018	128	.
		12	2626	42	.