

2021 State's Maintenance Benchmarks Based of Life of Vehicle Operating Cost

Asset Type	Year	Count of VIN	Average of MIS	Average of Current Odometer	Monthly Average of Grand Total Expense LOV	Monthly Average of Total Combined for Maintenance	Monthly Average of Fuel Dollars LOV	Average of LOV Cost Per Mile Fuel	Average of Grand Total Expense Per Month	Average of Grand Total Expense Per Mile	Average of Last 180 Days MPG
BUS	1986	1	432	375241	\$14.93	\$2.41	\$12.41	\$0.01	\$14.93	\$0.02	6.67
	1996	2	41	126565	\$12.79	\$1.01	\$7.18	\$0.00	\$12.79	\$0.00	N/A
	1998	1	239	27798	\$63.74	\$60.93	\$1.32	\$0.01	\$63.74	\$0.55	5.20
	1999	2	43	81187	\$2,191.38	\$1,757.67	\$417.81	\$0.31	\$2,191.38	\$1.53	6.73
	2007	3	8	124365	\$276.49	\$193.07	\$75.02	\$0.01	\$292.84	\$0.02	8.52
	2013	2	7	103804	\$271.19	\$18.70	\$243.92	\$0.02	\$271.19	\$0.02	5.49
	2020	1	25	24085	\$282.65	\$19.73	\$258.44	\$0.27	\$282.65	\$0.29	9.02
BUS Total		12	75	118611	\$253.56	\$190.95	\$59.74	\$0.08	\$515.88	\$0.34	6.73
CAR	1999	2	80	160851	\$43.80	\$27.53	\$26.46	\$0.01	\$36.12	\$0.02	9.99
	2000	1	29	66907	\$3.51	\$0.00	\$0.00	\$0.00	\$3.51	\$0.00	N/A
	2001	2	34	123950	\$29.39	\$12.91	\$19.40	\$0.01	\$31.10	\$0.01	16.01
	2002	4	60	104284	\$50.54	\$109.84	\$19.51	\$0.01	\$29.45	\$0.03	24.10
	2004	1	120	106998	\$168.47	\$82.23	\$82.63	\$0.09	\$168.47	\$0.19	8.33
	2005	8	95	107422	\$72.25	\$35.99	\$40.33	\$0.05	\$44.24	\$0.09	15.23
	2006	8	43	92088	\$30.78	\$10.93	\$16.97	\$0.01	\$34.90	\$0.01	16.30
	2007	9	100	113113	\$102.77	\$52.62	\$46.17	\$0.05	\$90.47	\$0.11	16.56
	2008	11	110	133610	\$93.59	\$36.89	\$52.59	\$0.05	\$82.66	\$0.09	21.41
	2009	18	102	117407	\$91.09	\$43.52	\$46.33	\$0.04	\$88.74	\$0.09	23.20
	2010	24	94	86708	\$118.53	\$47.97	\$71.18	\$0.07	\$103.65	\$0.11	21.87
	2011	27	97	94437	\$128.77	\$48.55	\$76.39	\$0.07	\$122.80	\$0.12	21.46
	2012	42	104	91580	\$110.22	\$48.77	\$58.61	\$0.06	\$107.14	\$0.12	26.07
	2013	41	97	91177	\$130.50	\$49.84	\$76.90	\$0.08	\$128.06	\$0.14	26.58
	2014	36	85	85332	\$127.33	\$48.10	\$75.44	\$0.07	\$127.65	\$0.12	26.16
	2015	50	81	99715	\$220.80	\$76.87	\$140.25	\$0.11	\$219.17	\$0.17	22.38
	2016	26	73	84704	\$153.68	\$52.67	\$98.60	\$0.08	\$155.28	\$0.13	28.50
	2017	44	64	102152	\$195.50	\$62.24	\$129.22	\$0.08	\$193.39	\$0.12	29.27
	2018	18	44	51189	\$120.98	\$25.95	\$91.30	\$0.08	\$121.78	\$0.10	31.97
	2019	8	30	23757	\$56.23	\$13.10	\$39.21	\$0.06	\$56.23	\$0.08	35.78
2020	24	23	31903	\$118.37	\$26.02	\$90.69	\$0.07	\$111.18	\$0.09	35.50	
CAR Total		404	80	89616	\$135.80	\$51.81	\$82.09	\$0.07	\$132.03	\$0.12	25.54
MISC	2011	1	126	3997	\$19.72	\$11.07	\$4.97	\$0.16	\$19.72	\$0.62	7.91
	2012	2	102	5633	\$12.76	\$6.02	\$3.19	\$0.06	\$12.78	\$0.79	43.83
	2013	1	101	2121	\$9.13	\$4.49	\$1.08	\$0.05	\$9.13	\$0.43	40.08
MISC Total		4	108	4346	\$13.95	\$7.14	\$3.21	\$0.08	\$13.60	\$0.66	30.61
SUV	1978	1	29	18625	\$11.05	\$6.69	\$0.83	\$0.00	\$11.05	\$0.02	N/A
	1983	1	29	12476	\$6.90	\$1.72	\$1.64	\$0.00	\$6.90	\$0.02	5.52
	1988	1	29	21916	\$41.32	\$30.22	\$7.56	\$0.01	\$41.32	\$0.05	4.63
	1990	1	29	18465	\$56.63	\$43.20	\$9.90	\$0.02	\$56.63	\$0.09	4.81
	1992	1	29	30211	\$28.98	\$11.79	\$13.65	\$0.01	\$28.98	\$0.03	5.67
	1993	1	40	165337	\$40.20	\$18.20	\$18.47	\$0.00	\$40.20	\$0.01	8.11
	1995	1	90	136111	\$32.24	\$20.83	\$9.70	\$0.01	\$32.24	\$0.02	6.60
	1997	2	35	63189	\$25.14	\$1.62	\$20.80	\$0.02	\$26.21	\$0.02	5.45
	1998	1	280	97881	\$10.00	\$6.30	\$0.20	\$0.00	\$10.00	\$0.03	N/A
	1999	2	80	161035	\$41.74	\$34.54	\$20.88	\$0.01	\$32.21	\$0.02	13.27
	2000	1	29	137393	\$70.43	\$10.13	\$56.77	\$0.01	\$70.43	\$0.01	14.55
	2001	3	101	90512	\$52.76	\$23.19	\$25.58	\$0.03	\$51.89	\$0.06	11.27
	2002	2	29	96087	\$53.23	\$36.91	\$12.78	\$0.01	\$53.23	\$0.02	9.43
	2003	3	29	133932	\$14.82	\$5.92	\$9.31	\$0.00	\$14.82	\$0.00	10.80
	2004	3	59	119130	\$245.17	\$121.90	\$119.68	\$0.08	\$141.47	\$0.16	12.07
	2005	2	196	114776	\$143.88	\$39.74	\$99.09	\$0.19	\$143.72	\$0.29	12.21
	2006	3	58	94024	\$104.43	\$45.22	\$55.60	\$0.03	\$80.40	\$0.06	12.49
	2007	2	82	144178	\$42.00	\$24.75	\$14.31	\$0.01	\$30.51	\$0.04	N/A
	2008	11	127	108273	\$140.50	\$48.12	\$88.04	\$0.10	\$126.87	\$0.15	14.95
	2009	9	91	86106	\$201.55	\$92.70	\$105.10	\$0.10	\$165.68	\$0.20	17.54
	2010	33	116	109153	\$162.52	\$63.42	\$95.24	\$0.10	\$154.10	\$0.17	17.49
	2011	36	120	106193	\$174.00	\$63.41	\$106.78	\$0.12	\$166.74	\$0.19	17.71
	2012	59	107	109406	\$173.78	\$71.26	\$98.80	\$0.09	\$176.22	\$0.17	20.11
	2013	33	89	112823	\$233.95	\$88.95	\$141.17	\$0.10	\$227.30	\$0.17	16.91
2014	160	91	110849	\$204.16	\$73.91	\$127.13	\$0.11	\$202.22	\$0.17	20.93	
2015	97	73	96560	\$238.35	\$81.33	\$153.84	\$0.11	\$225.10	\$0.17	19.01	

	2016	129	65	82719	\$218.12	\$65.65	\$148.68	\$0.11	\$209.33	\$0.16	19.87
	2017	47	55	73299	\$232.21	\$63.50	\$164.82	\$0.12	\$229.44	\$0.17	18.61
	2018	71	43	58734	\$205.37	\$44.10	\$156.76	\$0.11	\$208.85	\$0.15	21.28
	2019	86	33	37757	\$166.75	\$31.48	\$131.83	\$0.11	\$165.92	\$0.14	20.99
	2020	140	20	27090	\$176.18	\$26.54	\$146.03	\$0.12	\$182.93	\$0.14	20.50
	2021	175	4	6822	\$143.74	\$42.30	\$127.85	\$0.07	\$110.18	\$0.09	21.64
SUV Total		1117	57	68641	\$195.62	\$73.85	\$127.51	\$0.10	\$179.54	\$0.15	19.89
TRUCK HD	1987	2	122	55361	\$10.61	\$0.00	\$7.09	\$0.03	\$9.84	\$0.04	4.53
	1990	1	34	198922	\$5.22	\$0.32	\$0.00	\$0.00	\$5.22	\$0.00	N/A
	1999	1	91	106030	\$235.49	\$229.70	\$1.25	\$0.00	\$235.49	\$0.20	N/A
	2000	1	42	109150	\$286.84	\$196.59	\$85.60	\$0.03	\$286.84	\$0.11	0.80
	2001	2	66	70560	\$229.77	\$202.98	\$22.34	\$0.02	\$192.39	\$0.20	1.26
	2003	1	28	204072	\$19.88	\$16.76	\$1.83	\$0.00	\$19.88	\$0.00	N/A
	2004	1	120	755158	\$394.17	\$151.83	\$237.53	\$0.04	\$394.17	\$0.06	6.87
	2006	1	35	172271	\$740.24	\$658.93	\$76.46	\$0.02	\$740.24	\$0.15	5.69
	2007	1	101	18248	\$32.82	\$0.27	\$29.17	\$0.16	\$32.82	\$0.18	6.38
	2008	1	166	18468	\$286.16	\$187.71	\$80.71	\$0.73	\$286.16	\$2.57	3.48
	2010	3	62	122901	\$161.76	\$142.94	\$14.41	\$0.01	\$381.18	\$0.08	33.25
	2014	3	41	195478	\$647.05	\$396.81	\$377.45	\$0.21	\$389.08	\$0.33	4.93
	2015	6	105	63606	\$383.97	\$140.61	\$238.75	\$0.35	\$458.32	\$0.58	11.29
	2016	1	41	83614	\$405.00	\$75.89	\$324.53	\$0.16	\$405.00	\$0.20	23.14
	2017	3	62	46912	\$291.21	\$89.88	\$197.09	\$0.26	\$291.21	\$0.39	32.15
TRUCK HD Total		28	77	121260	\$283.93	\$153.72	\$141.31	\$0.17	\$312.31	\$0.35	13.53
TRUCK LD	1987	1	29	47996	\$3.53	\$0.00	\$0.00	\$0.00	\$3.53	\$0.00	N/A
	1989	3	29	38311	\$4.87	\$0.00	\$0.33	\$0.00	\$4.87	\$0.00	N/A
	1990	2	88	48630	\$97.72	\$64.90	\$28.32	\$0.05	\$100.57	\$0.18	8.60
	1991	1	29	90208	\$3.53	\$0.00	\$0.00	\$0.00	\$3.53	\$0.00	N/A
	1994	3	130	151296	\$44.99	\$37.13	\$6.53	\$0.00	\$55.23	\$0.04	4.48
	1995	1	29	154953	\$3.53	\$0.00	\$0.00	\$0.00	\$3.53	\$0.00	N/A
	1996	5	119	79424	\$35.71	\$32.95	\$5.88	\$0.01	\$34.20	\$0.06	8.94
	1997	3	84	92505	\$65.61	\$35.49	\$26.42	\$0.05	\$60.18	\$0.12	7.59
	1998	2	110	119628	\$171.00	\$92.13	\$74.12	\$0.07	\$146.29	\$0.15	6.66
	1999	3	60	125333	\$32.76	\$23.75	\$4.94	\$0.00	\$37.75	\$0.02	9.22
	2000	4	109	127195	\$38.85	\$13.23	\$23.71	\$0.03	\$42.03	\$0.04	10.36
	2001	5	118	69661	\$52.74	\$21.33	\$27.64	\$0.03	\$51.37	\$0.08	8.77
	2002	6	78	71134	\$106.97	\$94.76	\$24.02	\$0.03	\$101.87	\$0.15	9.92
	2003	6	62	100016	\$88.18	\$49.38	\$34.77	\$0.04	\$74.49	\$0.09	8.53
	2004	10	36	116176	\$57.18	\$40.13	\$25.24	\$0.01	\$59.24	\$0.03	8.19
	2005	10	97	78528	\$83.78	\$47.76	\$41.23	\$0.08	\$75.36	\$0.23	7.08
	2006	14	115	80180	\$115.77	\$60.73	\$50.85	\$0.10	\$109.74	\$0.22	9.55
	2007	20	89	103648	\$154.20	\$66.19	\$84.82	\$0.08	\$145.62	\$0.16	11.71
	2008	34	114	107881	\$215.70	\$83.48	\$130.82	\$0.14	\$188.49	\$0.23	12.87
	2009	20	104	106540	\$227.67	\$80.25	\$143.87	\$0.12	\$199.29	\$0.20	11.33
	2010	30	89	95911	\$171.09	\$57.40	\$111.77	\$0.09	\$139.98	\$0.15	12.37
	2011	48	87	136534	\$231.66	\$85.64	\$142.09	\$0.10	\$214.57	\$0.17	12.83
	2012	64	99	112495	\$240.99	\$84.95	\$152.35	\$0.12	\$219.57	\$0.20	15.14
	2013	50	98	111630	\$258.78	\$76.01	\$178.65	\$0.15	\$249.82	\$0.22	12.82
	2014	47	80	104520	\$315.48	\$89.38	\$223.62	\$0.16	\$350.81	\$0.23	13.73
	2015	54	79	90979	\$293.76	\$74.31	\$214.38	\$0.18	\$280.12	\$0.25	12.77
	2016	142	66	95375	\$348.77	\$90.05	\$254.92	\$0.17	\$338.48	\$0.23	13.45
	2017	11	55	44880	\$226.27	\$62.23	\$164.66	\$0.20	\$219.62	\$0.27	11.97
	2018	46	40	48310	\$237.67	\$51.59	\$182.04	\$0.15	\$227.23	\$0.19	14.52
	2019	105	28	38038	\$264.43	\$46.10	\$214.11	\$0.18	\$263.65	\$0.23	14.13
	2020	130	21	23221	\$198.28	\$35.35	\$159.71	\$0.14	\$197.54	\$0.18	16.52
	2021	60	4	4230	\$129.18	\$48.06	\$115.52	\$0.10	\$114.32	\$0.12	16.47
TRUCK LD Total		940	62	75943	\$239.52	\$77.70	\$164.21	\$0.14	\$226.33	\$0.20	13.75
TRUCK MD	1994	1	29	134659	\$9.72	\$0.48	\$4.18	\$0.00	\$9.72	\$0.00	N/A
	1996	1	49	102331	\$137.66	\$98.88	\$34.19	\$0.02	\$137.66	\$0.07	5.80
	1999	1	28	121604	\$65.16	\$13.24	\$46.85	\$0.01	\$65.16	\$0.02	8.58
	2001	1	40	77590	\$84.29	\$67.24	\$12.43	\$0.01	\$84.29	\$0.04	2.94
	2002	1	26	122177	\$193.94	\$67.97	\$120.74	\$0.03	\$193.94	\$0.04	5.27
	2004	4	157	39793	\$112.09	\$50.10	\$57.15	\$0.26	\$106.67	\$0.53	6.60
	2005	1	29	62502	\$57.18	\$50.06	\$3.58	\$0.00	\$57.18	\$0.03	N/A
	2008	6	136	29716	\$184.00	\$73.79	\$86.95	\$0.37	\$172.70	\$0.72	5.75
	2009	3	67	70545	\$214.39	\$90.43	\$119.44	\$0.10	\$228.91	\$0.17	7.63
	2012	1	91	67272	\$69.38	\$65.37	\$0.00	\$0.00	\$69.38	\$0.09	N/A

	2013	1	101	44581	\$251.67	\$123.40	\$124.18	\$0.28	\$251.67	\$0.57	10.36
	2016	2	74	194267	\$927.17	\$260.33	\$661.70	\$0.25	\$927.17	\$0.36	10.08
	2017	2	56	52777	\$385.64	\$124.42	\$256.91	\$0.27	\$385.64	\$0.39	10.07
	2019	2	31	8933	\$97.13	\$36.34	\$73.93	\$0.24	\$84.00	\$0.31	6.95
	2020	9	22	17304	\$193.38	\$33.46	\$154.53	\$0.12	\$194.42	\$0.18	10.78
	2021	1	1	1503	\$15.00	\$0.00	\$0.00	\$0.00	\$15.00	\$0.01	N/A
TRUCK MD Total		37	69	52730	\$210.65	\$82.50	\$121.95	\$0.18	\$204.78	\$0.31	7.75
VAN	1995	3	37	97546	\$5.66	\$3.75	\$0.47	\$0.00	\$5.91	\$0.00	N/A
	1996	2	74	87861	\$39.13	\$19.04	\$16.47	\$0.01	\$47.76	\$0.03	14.83
	1997	2	42	320696	\$45.44	\$14.99	\$26.91	\$0.01	\$46.73	\$0.01	9.11
	1998	1	29	94554	\$43.90	\$4.22	\$36.14	\$0.01	\$43.90	\$0.01	4.44
	1999	4	93	98248	\$15.11	\$21.13	\$3.11	\$0.01	\$27.92	\$0.02	11.71
	2000	4	59	71941	\$66.57	\$64.62	\$14.87	\$0.01	\$58.17	\$0.05	8.71
	2001	7	102	101347	\$86.97	\$49.41	\$41.40	\$0.04	\$62.25	\$0.08	8.91
	2002	4	81	85984	\$36.41	\$21.00	\$19.21	\$0.02	\$55.80	\$0.03	9.14
	2003	5	52	92946	\$149.76	\$91.87	\$73.02	\$0.04	\$146.87	\$0.09	10.19
	2004	7	71	67951	\$87.78	\$41.35	\$42.50	\$0.04	\$93.00	\$0.11	7.56
	2005	13	60	93314	\$70.13	\$38.76	\$27.82	\$0.02	\$70.37	\$0.05	9.10
	2006	21	87	111206	\$91.44	\$41.23	\$50.56	\$0.04	\$83.08	\$0.07	10.19
	2007	15	94	104372	\$97.79	\$34.44	\$64.28	\$0.05	\$68.20	\$0.08	15.66
	2008	31	83	76737	\$124.76	\$51.70	\$68.96	\$0.07	\$112.09	\$0.13	13.61
	2009	16	30	64342	\$117.61	\$45.88	\$67.90	\$0.03	\$107.39	\$0.05	13.77
	2010	38	84	63993	\$136.43	\$48.50	\$84.13	\$0.09	\$115.04	\$0.15	13.55
	2011	39	98	88128	\$145.14	\$47.90	\$93.28	\$0.10	\$126.36	\$0.16	15.25
	2012	29	64	63876	\$146.23	\$47.62	\$95.02	\$0.08	\$120.24	\$0.14	11.38
	2013	37	75	74392	\$125.82	\$38.50	\$83.65	\$0.08	\$105.94	\$0.13	18.05
	2014	27	76	81435	\$161.54	\$52.47	\$103.69	\$0.09	\$146.26	\$0.14	24.17
	2015	30	74	77957	\$236.29	\$62.03	\$172.73	\$0.15	\$214.63	\$0.22	13.62
	2016	89	64	98126	\$286.06	\$89.25	\$193.13	\$0.12	\$271.48	\$0.18	18.06
	2017	38	50	70105	\$272.88	\$79.02	\$194.29	\$0.14	\$253.58	\$0.19	17.18
	2018	23	40	54730	\$184.65	\$48.61	\$132.02	\$0.11	\$177.81	\$0.15	26.84
	2019	35	29	36633	\$174.78	\$36.67	\$135.24	\$0.14	\$170.50	\$0.18	17.32
	2020	32	17	14993	\$108.29	\$14.30	\$90.45	\$0.10	\$111.74	\$0.15	22.09
	2021	8	4	1978	\$48.74	\$0.00	\$42.88	\$0.12	\$27.28	\$0.15	12.56
VAN Total		560	64	75248	\$166.51	\$55.56	\$109.43	\$0.09	\$154.49	\$0.14	16.29
Grand Total		3102	63	75183	\$194.55	\$69.36	\$127.14	\$0.11	\$185.63	\$0.16	17.99