

Executive Summary Report

SMOG CHECK Statewide

2015*

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	10,082,766	1,216,044	12.06%
Total	11,421,899	1,521,725	13.32%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	8,759,534	86.88%	1,323,232	13.12%
Total	9,776,540	85.59%	1,645,359	14.41%

3. Certification Volume by Station Type*

Station Types	Certificates Issued on Initial Test	Percent (%) Certificates Issued	No Certificates Issued on Initial Test	Percent (%) No Certificates Issued
STAR Test Only	4,366,572	86.18%	700,467	13.82%
Non-STAR Test Only	283,655	90.55%	29,613	9.45%
STAR Test and Repair	2,496,027	86.43%	391,764	13.57%
Non-STAR Test and Repair	1,568,689	90.78%	159,321	9.22%
Total	8,714,943	87.18%	1,281,165	12.82%

*Note: Excludes Basic area dealer, Fleets, and Referee stations

4. Initial Test Failures by Failure Type

	OIS		BAR-97	
	Failed	Percent (%) Failed	Failed	Percent (%) Failed
All Emissions	NA	NA	448,126	14.20%
All Visual	99,369	1.44%	137,105	4.33%
All Functional	485,090	7.01%	371,429	11.70%
OBDII	473,694	6.85%	192,106	6.07%
Overall	552,824	7.99%	663,220	21.00%

7. Initial Test Failures by Program Area

Program Areas	OIS			BAR-97		
	Initial Tests	Failed	Percent (%) Failed	Initial Tests	Failed	Percent (%) Failed
Enhanced	6,029,253	485,927	8.06%	2,516,749	550,717	21.90%
Partial	301,601	23,977	7.95%	174,744	38,338	21.90%
Basic	529,574	38,166	7.21%	350,625	48,138	13.70%
Change of Ownership	57,639	4,754	8.25%	27,696	5,867	21.20%
No Program	0	0	0.00%	38	10	26.30%
Unknown	0	0	0.00%	94,847	20,150	21.20%
Total Program Area	6,918,067	552,824	7.99%	3,164,699	663,220	21.00%

8. Initial Test Failures by Station Type

Station Types	OIS			BAR-97		
	Initial Tests	Failed	Percent (%) Failed	Initial Tests	Failed	Percent (%) Failed
STAR Test Only	3,303,356	288,319	8.73%	1,763,683	390,345	22.10%
STAR Test Only Suspended	1,482	95	6.41%	84	18	21.40%
Non-STAR Test Only	231,096	15,577	6.74%	82,172	12,006	14.60%
STAR Test and Repair	1,987,761	164,343	8.27%	900,030	203,378	22.60%
STAR Test and Repair Suspended	552	27	4.89%	51	14	27.50%
Non-STAR Test and Repair	1,346,414	81,237	6.03%	381,596	51,908	13.60%
Test and Repair/Dealer	34,953	1,981	5.67%	7,906	709	8.97%
Business Fleet	55	1	1.82%	8	0	0.00%
Permanent Fleet Registered	0	0	0.00%	148	8	5.41%
Referee	1,666	626	37.60%	4,250	2,216	52.10%
Govt Fleet	10,732	618	5.76%	24,771	2,618	10.60%
Total	6,918,067	552,824	7.99%	3,164,699	663,220	21.00%

5. Initial Tests at All STAR Stations

Vehicles	Test and Repair Station Initial Tests	Test-Only Station Initial Tests	Test and Repair Station Certificates Issued	Test-Only Station Certificates Issued
Directed	597,625	1,384,051	461,960	1,082,984
Non-Directed	2,290,166	3,682,988	2,034,067	3,283,588
Total	2,887,791	5,067,039	2,496,027	4,366,572

6. Initial Tests at All Non-STAR Stations

Vehicles	Test and Repair Station Initial Tests	Test-Only Station Initial Tests	Test and Repair Station Certificates Issued	Test-Only Station Certificates Issued
Directed	5,348	1,340	1,541	611
Non-Directed	1,722,662	311,928	1,567,148	283,044
Total	1,728,010	313,268	1,568,689	283,655

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9. Number of Licensed Stations by Type/Privilege and Program Area

Station Type	Basic	Change of Ownership	Enhanced	Partial	Total
STAR Regular Test and Repair CAP Enhanced	0	0	2,303	102	2,405
STAR Regular Test and Repair CAP Basic	158	0	0	0	158
STAR Regular Test and Repair CAP COO	0	69	0	0	69
STAR Test Only	16	1	2,077	29	2,123
Non-STAR Regular Test and Repair	516	39	2,504	250	3,309
Non-STAR Test Only	19	1	504	19	543
Repair Only	2	1	63	1	67
Basic Area Dealer	78	0	0	0	78
Business Fleet	0	0	3	0	3
Permanent Fleet Registered	4	0	28	1	33
Referee	6	1	36	0	43
Government Fleet	40	2	271	11	324
Unknown Type	0	0	1	0	1
Total	839	114	7,790	413	9,156

10. Number of Stations Conducting Test by Equipment Type

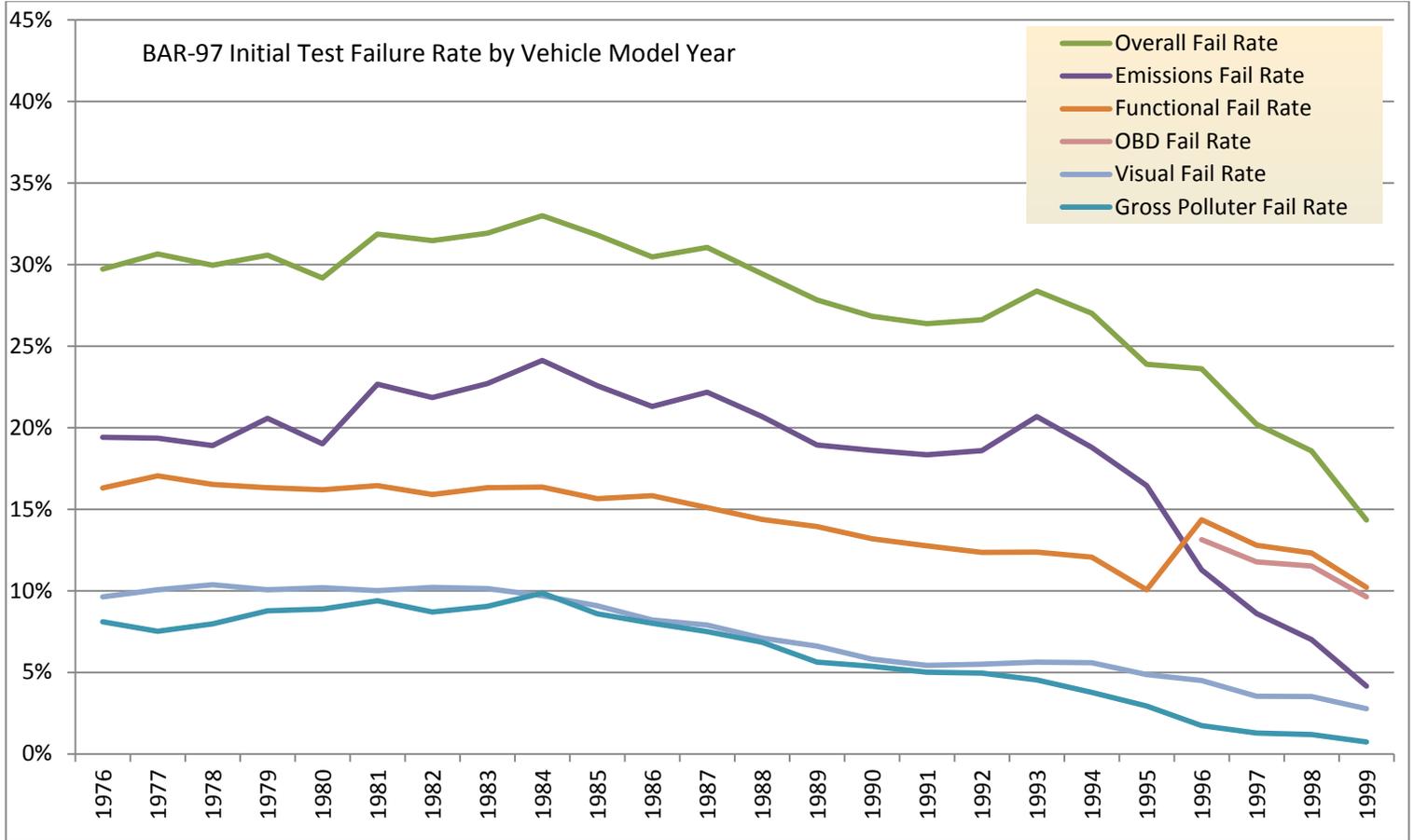
Station Type	Equipment Type		
	BAR-97 Only	OIS Only	BAR-97 & OIS
STAR Regular Test and Repair CAP Enhanced	22	26	2,379
STAR Regular Test and Repair CAP Basic	0	1	99
STAR Regular Test and Repair CAP COO	2	1	74
STAR Test Only	40	6	1,995
Non-STAR Regular Test and Repair	73	776	1,873
Non-STAR Test Only	24	47	275
Basic Area Dealer	0	7	67
Business Fleet	0	0	2
Permanent Fleet Registered	13	0	0
Referee	0	0	31
Government Fleet	61	45	101
Unknown Type	1	0	0
Total	236	909	6,896

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11. BAR-97 Initial Test Failure Rate by Vehicle Model Year



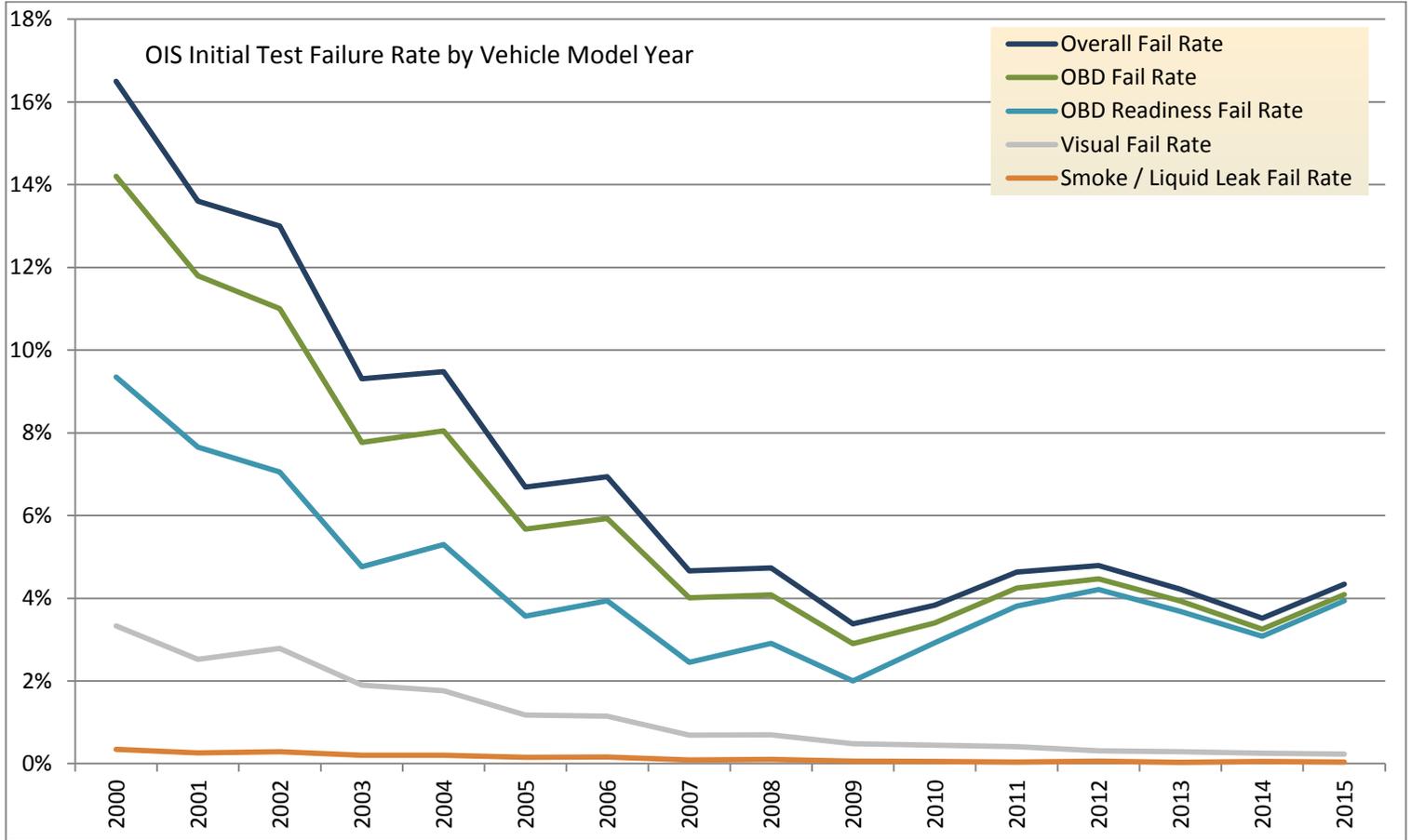
Note: Please see tabular data in Table 17 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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12. OIS Initial Test Failure Rate by Vehicle Model Year



Note: Please see tabular data in Table 18 for OIS tests conducted on other vehicle model years not shown in chart.

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13. Referee Activity

	OIS Certificates Issued	BAR-97 Certificates Issued
Certificate of Compliance	2147	3599
Certificate of Non Compliance	1	0
Parts Cost	515	310
Hardship Extensions	4	3
Exempt Vehicle	12	283
Exempted by Directive	51	345
Parts Exemption	172	52
Unknown Outcome	0	0
Permanently Exempt Vehicle	0	0
Temporarily Exempt Vehicle	0	0
Total	2902	4592

14. Active Technicians

License Type	Technician Count
EA (Inspect and Repair Enhance	11
EB (Inspect and Repair Basic)	1
EI (Repair Only)	2
EO (Inspect Only)	3,435
EO + EI (Inspect and Repair)	7,453
Total	10,902

15. Inspection Costs by Station and Test Type

Station Type	BAR-97 Initial Test Count	Average BAR-97 Inspection Cost	OIS Initial Test Count	Average OIS Inspection Cost	Total Initial Test Count	Overall Average Inspection Cost
STAR Test and Repair	847,166	\$47.71	1,969,239	\$46.63	2,816,405	\$46.96
STAR Test Only	1,657,300	\$47.41	3,266,360	\$48.76	4,923,660	\$48.31
Non-STAR Test and Repair	358,373	\$45.39	1,312,103	\$52.31	1,670,476	\$50.82
Non-STAR Test Only	75,928	\$40.80	206,420	\$47.11	282,348	\$45.41
Test and Repair/Dealer	7,392	\$50.38	33,476	\$56.70	40,868	\$55.55
Total	2,946,159	\$47.09	6,789,632	\$48.81	9,735,791	\$48.29

16. Inspection Costs by Station and Equipment Type

Station Type	BAR-97 Equipment Only		OIS Equipment Only		Both Equipment (BAR-97 + OIS)			
	BAR-97 Initial Test Count	Average BAR-97 Inspection Cost	OIS Initial Test Count	Average OIS Inspection Cost	BAR-97 Initial Test Count	Average BAR-97 Inspection Cost	OIS Initial Test Count	Average OIS Inspection Cost
STAR Test and Repair	1,408	\$45.05	8,417	\$48.28	845,758	\$47.72	1,960,822	\$46.62
STAR Test Only	12,905	\$36.75	1,878	\$53.55	1,644,395	\$47.49	3,264,482	\$48.76
Non-STAR Test and Repair	2,497	\$49.99	218,956	\$62.01	355,876	\$45.35	1,093,147	\$50.37
Non-STAR Test Only	1,876	\$36.81	8,266	\$41.13	74,050	\$40.90	198,154	\$47.35
Test and Repair/Dealer	0	\$0.00	2,261	\$62.68	7,392	\$50.38	31,215	\$56.26
Total	18,686	\$39.15	239,778	\$60.75	2,927,471	\$47.14	6,549,854	\$48.38

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17. Tabular Data for BAR-97 Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
1934	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1941	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1957	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1963	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1974	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	NA
1976	7,706	2,291	29.73%	19.41%	8.10%	16.31%	9.64%	NA
1977	10,240	3,140	30.66%	19.37%	7.52%	17.05%	10.07%	NA
1978	11,847	3,549	29.96%	18.90%	7.98%	16.53%	10.37%	NA
1979	12,777	3,909	30.59%	20.58%	8.77%	16.33%	10.06%	NA
1980	7,479	2,182	29.18%	19.01%	8.88%	16.19%	10.20%	NA
1981	8,510	2,713	31.88%	22.68%	9.40%	16.46%	10.01%	NA
1982	9,399	2,958	31.47%	21.85%	8.70%	15.91%	10.21%	NA
1983	12,146	3,878	31.93%	22.70%	9.04%	16.33%	10.14%	NA
1984	21,613	7,134	33.01%	24.12%	9.86%	16.36%	9.70%	NA
1985	29,455	9,373	31.82%	22.58%	8.60%	15.65%	9.09%	NA
1986	40,793	12,431	30.47%	21.31%	8.02%	15.83%	8.22%	NA
1987	46,625	14,478	31.05%	22.18%	7.50%	15.10%	7.90%	NA
1988	55,757	16,414	29.44%	20.69%	6.85%	14.38%	7.10%	NA
1989	78,208	21,773	27.84%	18.95%	5.63%	13.95%	6.62%	NA
1990	95,681	25,667	26.83%	18.62%	5.37%	13.20%	5.82%	NA
1991	116,915	30,843	26.38%	18.35%	5.01%	12.76%	5.43%	NA
1992	119,836	31,894	26.61%	18.59%	4.95%	12.36%	5.50%	NA
1993	151,252	42,928	28.38%	20.69%	4.53%	12.37%	5.63%	NA
1994	188,147	50,844	27.02%	18.79%	3.78%	12.06%	5.59%	NA
1995	274,507	65,591	23.89%	16.45%	2.93%	10.07%	4.86%	NA
1996	229,050	54,089	23.61%	11.29%	1.74%	14.36%	4.50%	13.14%
1997	398,326	80,524	20.22%	8.61%	1.28%	12.79%	3.54%	11.78%
1998	376,979	70,026	18.58%	7.02%	1.19%	12.33%	3.52%	11.52%
1999	588,383	84,427	14.35%	4.15%	0.73%	10.22%	2.77%	9.64%
2000	27,516	3,777	13.73%	4.75%	1.30%	10.24%	2.26%	9.60%
2001	32,364	3,996	12.35%	3.18%	0.65%	10.09%	1.97%	9.54%
2002	23,596	2,719	11.52%	3.05%	0.78%	9.39%	1.67%	8.94%
2003	33,559	2,832	8.44%	1.97%	0.54%	6.76%	1.39%	6.31%
2004	21,869	1,791	8.19%	1.90%	0.46%	6.42%	1.38%	6.08%
2005	32,777	1,801	5.49%	1.23%	0.32%	4.30%	0.79%	4.07%
2006	21,135	1,092	5.17%	1.28%	0.20%	3.94%	0.87%	3.60%
2007	30,804	987	3.20%	0.69%	0.16%	2.43%	0.48%	2.30%
2008	14,785	501	3.39%	0.95%	0.16%	2.70%	0.49%	2.57%
2009	14,206	334	2.35%	0.53%	0.14%	1.84%	0.27%	1.76%
2010	3,886	65	1.67%	0.77%	0.10%	1.34%	0.15%	1.31%
2011	5,245	99	1.89%	0.69%	0.06%	1.49%	0.25%	1.45%
2012	3,006	45	1.50%	1.00%	0.00%	1.20%	0.20%	1.20%
2013	2,871	61	2.12%	0.87%	0.00%	1.67%	0.52%	1.67%
2014	2,597	25	0.96%	0.35%	0.00%	0.58%	0.39%	0.54%
2015	2,336	38	1.63%	1.46%	0.04%	0.34%	1.20%	0.34%
2016	509	1	0.20%	0.00%	0.00%	0.20%	0.00%	0.00%
All Model Years	3,164,699	663,220	20.96%	11.49%	2.67%	11.74%	4.33%	6.07%

Note: Some model year 1975 and older vehicles required a Referee inspection (for example, engine changes). Vehicle model years 2000 and newer were tested on the BAR-97 because they may not be compatible with the OIS test (for example, a non-OBD-II certified vehicle).

See Table 19 for Smog Check requirements.

*Note: Data for OIS in this report is shown from the BAR-OIS go-live date of March 9th through December 31st.

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18. Tabular Data for OIS Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII	Percent (%) Failed OBDII Readiness	Percent (%) Failed Smoke and/or Liquid Leak
0	2	2	100.00%	100.00%	50.00%	100.00%	50.00%	0.00%
1983	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1985	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1986	3	1	33.30%	33.30%	0.00%	33.30%	0.00%	0.00%
1987	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1988	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1989	1	1	100.00%	0.00%	100.00%	0.00%	0.00%	0.00%
1990	2	1	50.00%	50.00%	0.00%	50.00%	50.00%	0.00%
1991	4	1	25.00%	25.00%	25.00%	25.00%	0.00%	0.00%
1992	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1993	8	1	12.50%	12.50%	0.00%	12.50%	12.50%	0.00%
1994	6	1	16.70%	16.70%	0.00%	16.70%	16.70%	0.00%
1995	18	6	33.30%	27.80%	5.56%	27.80%	16.70%	0.00%
1996	564	51	9.04%	7.98%	1.77%	7.27%	4.08%	0.71%
1997	1,300	130	10.00%	8.15%	2.54%	7.85%	4.38%	0.31%
1998	3,585	509	14.20%	12.00%	3.32%	10.80%	6.53%	1.14%
1999	11,212	1,584	14.10%	12.70%	2.27%	12.00%	8.24%	0.74%
2000	409,646	67,477	16.50%	14.60%	3.33%	14.20%	9.35%	0.35%
2001	718,687	97,845	13.60%	12.10%	2.52%	11.80%	7.65%	0.26%
2002	429,556	55,889	13.00%	11.20%	2.79%	11.00%	7.05%	0.29%
2003	859,883	80,015	9.31%	7.98%	1.90%	7.77%	4.76%	0.20%
2004	432,727	41,021	9.48%	8.25%	1.76%	8.05%	5.30%	0.20%
2005	990,539	66,284	6.69%	5.82%	1.18%	5.67%	3.57%	0.15%
2006	438,976	30,448	6.94%	6.09%	1.15%	5.93%	3.94%	0.16%
2007	1,039,398	48,391	4.66%	4.10%	0.69%	4.01%	2.45%	0.09%
2008	299,047	14,155	4.73%	4.18%	0.70%	4.08%	2.91%	0.10%
2009	622,079	21,007	3.38%	2.96%	0.48%	2.90%	2.00%	0.06%
2010	148,414	5,689	3.83%	3.45%	0.45%	3.40%	2.92%	0.05%
2011	139,355	6,455	4.63%	4.29%	0.41%	4.25%	3.81%	0.04%
2012	110,504	5,294	4.79%	4.53%	0.31%	4.47%	4.21%	0.06%
2013	115,249	4,859	4.22%	3.96%	0.29%	3.93%	3.68%	0.03%
2014	95,963	3,381	3.52%	3.30%	0.25%	3.25%	3.08%	0.05%
2015	48,381	2,101	4.34%	4.13%	0.23%	4.09%	3.94%	0.04%
2016	2,949	225	7.63%	7.46%	0.17%	7.43%	7.22%	0.03%
All Model Years	6,918,067	552,824	7.99%	7.01%	1.44%	6.85%	4.50%	0.16%

Note: Some model year 1999 and older vehicles required a Referee inspection, were tested at Beta stations, or were 1998/1999 model year diesels.

See Table 19 for Smog Check requirements.

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19. Smog Check Requirements by Vehicle Type

SMOG CHECK REQUIREMENTS BY VEHICLE TYPE						
Fuel Type	Model-Year	GVWR ¹	OBD II Equipped?	Smog Check Required		
				None	OIS Test	BAR-97 Test
All ² (except Diesel)	Four model-years and newer ³	All	All	X		
	Fifth and sixth model-years ⁴	All	All	X		
	1975 and earlier	All	All	X		
Gasoline & Flex Fuel (Methanol or Ethanol)	1976-1999	All	All			X
	2000 and newer	14,000 and less	Yes ⁵		X	
		Over 14,000	All	No		
Hybrid	2000 and newer	14,000 and less	All		X	
Dedicated Propane and Natural Gas (CNG, LNG, or LPG)	1976-1999	14,000 and less	All			X
		Over 14,000	All	X		
	2000 and newer	14,000 and less	Yes		X	
		Over 14,000	All	No		
Diesel	1976-1997	All	All	X		
	1998 and newer	14,000 and less	All		X	
		Over 14,000	All	All	X ⁶	
Full Electric Powered	All	All	All	X		
Motorcycle	All	All	All	X		
Other Vehicles: Two Cylinder Engine, Two-stroke Engine, Off-highway Registered	All	All	All	X		

¹ Gross vehicle weight rating

² Includes gasoline, flex fuel, hybrid, dedicated propane, and natural gas vehicles. A Smog Check is required for all out-of-state 1976 model-year and newer vehicles registering in California for the first time and other initial registration events determined by the Department of Motor Vehicles.

³ Vehicles four model-years and newer are not subject to biennial (every other year) or change-of-ownership Smog Checks. Add four to the model-year of a vehicle to determine the first year a vehicle will be subject to a change-of-ownership Smog Check. For example, a 2010 model-year vehicle will be first subject a change-of-ownership Smog Check in 2014 (2010+4=2014).

⁴ Fifth and sixth model-year vehicles are not subject to biennial Smog Checks. However, a change-of-ownership Smog Check is required. Add six to the model-year of a vehicle to determine the first year a vehicle will be subject to a biennial Smog Check. For example, a 2010 model-year vehicle will be first subject to a biennial Smog Check in 2016 (2010+6=2016).

⁵ In the future, BAR may identify some vehicles that have GVWR of 14,000 and less or that have problematic OBD II systems that may require the BAR-97 test.

⁶ Fleet vehicles are subject to the ARB Periodic Smoke Inspection Program (PSIP).