

# Executive Summary Report

## SMOG CHECK Statewide

June 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	824,055	104,987	12.74%
Total	951,228	133,778	14.06%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	706,764	85.77%	117,291	14.23%
Total	800,176	84.12%	151,052	15.88%

### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	420,341	85.77%	69,737	14.23%
Total	478,172	84.87%	85,263	15.13%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	16,241	1.97%
All Emissions	54,287	6.59%
All Visual	12,180	1.48%
All Functional	35,250	4.28%
OBDII	34,829	4.23%
Overall	104,987	12.74%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	661,271	84,657	12.80%	12,870	1.95%
Partially Enhanced	39,950	5,905	14.78%	900	2.25%
Basic	74,887	9,293	12.41%	1,614	2.16%
Change of Ownership	5,329	804	15.09%	211	3.96%
No Program	2	1	50.00%	0	0.00%
Unknown Program	42,616	4,327	10.15%	646	1.52%
Total Program Area	824,055	104,987	12.74%	16,241	1.97%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	490,078	68,352	13.95%	11,217	2.29%
Regular	260,301	25,104	9.64%	3,205	1.23%
Basic Area Dealer	4,702	248	5.27%	47	1.00%
Gold Shield in Enhanced Area	54,578	8,858	16.23%	1,270	2.33%
Gold Shield in Basic Area	6,311	1,084	17.18%	245	3.88%
Gold Shield in COO Area	3,792	491	12.95%	130	3.43%
Business Fleet	13	0	0.00%	0	0.00%
Permanent Fleet Registered	107	9	8.41%	1	0.93%
Referee	903	504	55.81%	101	11.18%
Government Fleet	3,269	337	10.31%	25	0.76%
Unknown Privilege	1	0	0.00%	0	0.00%
Total	824,055	104,987	12.74%	16,241	1.97%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	259,460	231,829
Directed Vehicles	230,618	188,512
Total	490,078	420,341

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	47,676	40,815
Directed Vehicles	17,005	12,828
Total	64,681	53,643

6. 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
MY-0	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1966	3	3	100.00%	66.67%	33.33%	33.33%	66.67%	0.00%
MY-1969	1	1	100.00%	100.00%	0.00%	0.00%	100.00%	0.00%
MY-1970	2	2	100.00%	50.00%	0.00%	50.00%	50.00%	0.00%
MY-1971	1	1	100.00%	100.00%	0.00%	100.00%	100.00%	0.00%
MY-1972	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1974	8	2	25.00%	12.50%	12.50%	0.00%	12.50%	0.00%
MY-1975	11	6	54.55%	45.45%	18.18%	18.18%	9.09%	0.00%
MY-1976	1,385	425	30.69%	19.13%	9.53%	19.78%	7.94%	0.00%
MY-1977	1,874	554	29.56%	17.61%	8.59%	19.80%	8.43%	0.00%
MY-1978	2,266	727	32.08%	19.02%	9.14%	20.87%	9.80%	0.00%
MY-1979	2,256	742	32.89%	21.28%	11.04%	22.12%	9.49%	0.00%
MY-1980	1,518	455	29.97%	20.49%	10.01%	18.05%	8.17%	0.00%
MY-1981	1,760	542	30.80%	24.09%	11.59%	17.61%	8.01%	0.00%
MY-1982	1,999	599	29.96%	22.21%	10.76%	16.81%	8.50%	0.00%
MY-1983	3,144	920	29.26%	22.01%	10.88%	16.60%	7.32%	0.00%
MY-1984	5,263	1,634	31.05%	24.32%	11.97%	17.06%	7.70%	0.00%
MY-1985	6,984	2,039	29.20%	22.61%	10.48%	16.68%	6.36%	0.00%
MY-1986	9,735	2,736	28.10%	20.30%	9.48%	15.80%	5.76%	0.00%
MY-1987	11,744	3,454	29.41%	22.42%	9.36%	15.86%	5.33%	0.00%
MY-1988	14,777	3,867	26.17%	19.44%	7.29%	14.13%	4.44%	0.00%
MY-1989	18,892	4,530	23.98%	17.22%	6.19%	13.13%	3.74%	0.00%
MY-1990	23,026	5,236	22.74%	15.94%	5.50%	12.43%	2.89%	0.00%
MY-1991	26,674	5,579	20.92%	14.94%	4.90%	11.00%	2.41%	0.00%
MY-1992	26,664	5,178	19.42%	13.40%	4.26%	10.11%	2.44%	0.00%
MY-1993	31,776	6,654	20.94%	15.62%	3.84%	9.39%	2.35%	0.00%
MY-1994	41,122	7,190	17.48%	11.61%	2.61%	8.70%	2.01%	0.00%
MY-1995	37,390	6,310	16.88%	11.19%	2.43%	8.40%	1.90%	0.00%
MY-1996	54,538	8,425	15.45%	6.47%	0.91%	1.46%	1.15%	10.37%
MY-1997	43,347	6,484	14.96%	5.76%	0.93%	1.51%	1.01%	10.51%
MY-1998	71,600	7,093	9.91%	3.09%	0.50%	0.77%	0.72%	7.29%
MY-1999	50,463	4,911	9.73%	2.47%	0.44%	0.78%	0.64%	7.59%
MY-2000	115,561	7,799	6.75%	1.20%	0.23%	0.57%	0.43%	5.46%
MY-2001	35,520	2,940	8.28%	1.22%	0.25%	0.66%	0.52%	7.15%
MY-2002	126,561	6,032	4.77%	0.50%	0.11%	0.42%	0.34%	4.06%
MY-2003	16,776	697	4.15%	0.55%	0.14%	0.33%	0.27%	3.45%
MY-2004	18,227	627	3.44%	0.31%	0.10%	0.25%	0.21%	2.89%
MY-2005	7,579	242	3.19%	0.26%	0.03%	0.17%	0.21%	2.69%
MY-2006	5,365	164	3.06%	0.22%	0.02%	0.22%	0.15%	2.57%
MY-2007	5,634	131	2.33%	0.30%	0.05%	0.09%	0.32%	1.83%
MY-2008	2,518	51	2.03%	0.60%	0.24%	0.16%	0.52%	1.23%
MY-2009	89	4	4.49%	0.00%	0.00%	0.00%	0.00%	4.49%
All Model Years	824,055	104,987	12.74%	6.59%	1.97%	4.28%	1.48%	4.23%

**7. Referee Activity**

	Certificates Issued
Certificate of Compliance	643
Certificate of Non Compliance	0
Parts Cost	99
Hardship Extensions	213
Exempt Vehicle	36
Exempted by Directive	157
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,151</b>

**8. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,327
Stations Locked-Out at Least Once	161
Stations Conducted at Least One Test	7,467

**9. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,109	6,102
EA	Gas Endorsement	11	0
EB	Both Endorsement	58	0
EB	Gas Endorsement	536	0
GU	Both Endorsement	20	0

**10. Inspection Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	433,616	49.87	48,916	51.00	482,532	49.99
Test and Repair	172,792	47.67	84,653	47.48	257,445	47.61
Test and Repair Dealer	19	69.32	4,683	52.21	4,702	52.28
Referee	463	30.00	123	30.00	586	30.00
Gold Shield in Enhanced Area	44,145	49.32	10,398	46.11	54,543	48.71
Gold Shield in Basic Area	6	74.33	6,305	36.54	6,311	36.57
Gold Shield in COO Area	64	57.11	3,780	54.72	3,844	54.76

**11. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,596	22.10	<b>25,131</b>	<b>206.93</b>
	\$51-150	6,609	100.83		
	\$151-250	3,922	198.59		
	\$251-450	4,162	336.67		
	Over \$450	2,842	769.14		
CAP Repairs	\$0-50	134	22.90	<b>4,688</b>	<b>370.59</b>
	\$51-150	327	104.86		
	\$151-250	625	204.03		
	\$251-450	1,798	353.92		
	Over \$450	1,804	518.91		
Total Repairs	\$0-50	6,476	22.33	<b>26,294</b>	<b>263.85</b>
	\$51-150	5,295	101.02		
	\$151-250	4,065	199.94		
	\$251-450	5,421	343.07		
	Over \$450	5,037	711.86		

**12. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	4,688	370.59

**13. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	7	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	59	16	4	0	5	8	6	2

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	47	3	1	0	2	3	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	7	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	14	3	0	0	1	2	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	31,634	6,515	893	309	2,134	3,422	2,133	775
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	81	4	0	43	29	14	0
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	23	6	1	0	2	3	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	265	332	69	128	74	189	110	172
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	123,779	12,340	1,287	596	6,077	4,972	3,234	1,203
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	354,020	60,524	9,915	3,177	17,433	35,153	20,842	7,013
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,003	720	110	31	236	378	252	80
Acceleration Simulation Mode (ASM)	Partial	Referee	15	29	7	14	4	14	8	19
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,343	3,146	452	163	886	1,693	1,105	352
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,370	1,676	268	96	471	970	569	191
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,559	294	50	21	92	167	100	45
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	219	13	0	30	161	37	4
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	40	18	3	11	3	7	7	12
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,807	1,193	156	79	520	576	314	158
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,719	1,663	257	104	640	912	484	205
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,491	991	224	77	259	409	459	178

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	234	19	2	1	5	7	8	2
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,842	732	128	35	215	248	352	112
Two Speed Idle (TSI)	Basic	Referee	27	48	10	27	7	17	20	38
Two Speed Idle (TSI)	Basic	Test and Repair	44,366	6,099	958	316	1,889	2,145	2,710	739
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,483	216	45	4	76	73	83	28
Two Speed Idle (TSI)	Basic	Test Only	7,286	1,162	242	71	342	507	458	134
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	44	16	7	0	3	8	9	0
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,649	356	100	23	71	188	145	43
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	167	44	7	4	6	20	27	8
Two Speed Idle (TSI)	Change of Ownership	Referee	3	4	2	2	1	4	2	4
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,777	248	62	16	62	115	115	38
Two Speed Idle (TSI)	Change of Ownership	Test Only	743	133	33	11	36	66	42	18
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	365	24	3	1	12	6	9	1
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	403	19	2	0	12	5	5	1
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,141	450	67	19	201	149	158	51
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	23	7	0	5	11	7	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	46	3	0	0	0	2	0	1
Two Speed Idle (TSI)	Enhanced	Referee	39	25	2	10	10	3	3	12
Two Speed Idle (TSI)	Enhanced	Test and Repair	21,790	1,409	172	66	814	307	378	138
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	334	14	0	0	11	1	2	0
Two Speed Idle (TSI)	Enhanced	Test Only	33,440	2,883	448	124	1,535	891	673	238
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	39	2	1	0	0	2	1	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	334	39	7	4	19	16	13	6
Two Speed Idle (TSI)	Partial	Test and Repair	1,998	181	38	8	77	62	63	16
Two Speed Idle (TSI)	Partial	Test Only	939	101	17	4	44	34	26	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	249	51	11	7	16	17	24	11
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	875	92	25	4	33	42	35	10
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	552	61	8	1	34	23	19	3
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	9	1	0	4	3	2	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Unknown Program	Referee	25	26	8	3	3	15	4	18
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,024	471	76	31	232	142	140	54
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	416	12	2	0	7	4	2	0
Two Speed Idle (TSI)	Unknown Program	Test Only	2,769	205	36	10	125	63	32	13
UnKnown TestType	Basic	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Referee	4	4	0	0	0	4	0	4
UnKnown TestType	Partial	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Unknown Program	Referee	13	13	0	0	0	13	0	11