

# Executive Summary Report

## SMOG CHECK Statewide

September 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	765,828	96,830	12.64%
Total	880,601	119,279	13.55%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	658,748	86.02%	107,080	13.98%
Total	746,358	84.76%	134,243	15.24%

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

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	397,301	85.91%	65,142	14.09%
Total	454,863	84.99%	80,325	15.01%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	14,914	1.95%
All Emissions	49,482	6.46%
All Visual	10,930	1.43%
All Functional	31,984	4.18%
OBDII	33,139	4.33%
Overall	96,830	12.64%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	612,262	78,376	12.80%	11,838	1.93%
Partially Enhanced	36,669	5,307	14.47%	804	2.19%
Basic	69,751	8,353	11.98%	1,427	2.05%
Change of Ownership	5,035	779	15.47%	228	4.53%
No Program	2	0	0.00%	0	0.00%
Unknown Program	42,109	4,015	9.53%	617	1.47%
Total Program Area	765,828	96,830	12.64%	14,914	1.95%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	462,443	63,939	13.83%	10,400	2.25%
Regular	235,790	22,902	9.71%	2,944	1.25%
Basic Area Dealer	4,084	206	5.04%	27	0.66%
Gold Shield in Enhanced Area	52,425	8,179	15.60%	1,212	2.31%
Gold Shield in Basic Area	5,261	901	17.13%	167	3.17%
Gold Shield in COO Area	3,938	540	13.71%	152	3.86%
Business Fleet	9	1	11.11%	0	0.00%
Permanent Fleet Registered	161	14	8.70%	1	0.62%
Government Fleet	1,716	148	8.62%	11	0.64%
Unknown Privilege	1	0	0.00%	0	0.00%
Total	765,828	96,830	12.64%	14,914	1.95%

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

	Initial Tests	Certificates Issued
Volunteers	238,429	213,098
Directed Vehicles	224,014	184,203
Total	462,443	397,301

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

	Initial Tests	Certificates Issued
Volunteers	45,187	38,759
Directed Vehicles	16,437	12,736
Total	61,624	51,495

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-1968	1	1	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%
MY-1974	5	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	9	3	33.33%	22.22%	11.11%	33.33%	22.22%	0.00%
MY-1976	1,108	313	28.25%	19.77%	9.03%	17.06%	7.85%	0.00%
MY-1977	1,703	536	31.47%	17.97%	7.93%	21.26%	7.87%	0.00%
MY-1978	1,803	531	29.45%	19.74%	9.60%	18.19%	8.60%	0.00%
MY-1979	2,174	749	34.45%	22.49%	10.58%	22.40%	9.29%	0.00%
MY-1980	1,301	391	30.05%	21.60%	11.68%	17.68%	8.30%	0.00%
MY-1981	1,568	524	33.42%	24.49%	11.93%	19.58%	9.31%	0.00%
MY-1982	1,768	522	29.52%	23.70%	10.92%	16.40%	7.47%	0.00%
MY-1983	2,440	763	31.27%	23.36%	10.41%	16.84%	7.95%	0.00%
MY-1984	4,433	1,358	30.63%	23.69%	11.82%	16.47%	7.51%	0.00%
MY-1985	6,298	1,885	29.93%	22.98%	11.08%	16.74%	6.49%	0.00%
MY-1986	9,748	2,647	27.15%	19.55%	8.78%	15.97%	4.91%	0.00%
MY-1987	10,482	3,018	28.79%	22.23%	9.15%	14.96%	5.07%	0.00%
MY-1988	12,994	3,295	25.36%	19.05%	7.27%	13.48%	4.14%	0.00%
MY-1989	18,148	4,196	23.12%	16.27%	5.87%	13.02%	3.72%	0.00%
MY-1990	20,325	4,549	22.38%	15.84%	5.55%	11.86%	2.91%	0.00%
MY-1991	25,429	5,185	20.39%	14.75%	4.81%	10.62%	2.24%	0.00%
MY-1992	24,347	4,745	19.49%	13.82%	4.35%	9.82%	2.29%	0.00%
MY-1993	28,621	6,252	21.84%	16.34%	3.90%	10.31%	2.38%	0.00%
MY-1994	36,271	6,496	17.91%	11.93%	2.74%	9.01%	2.17%	0.00%
MY-1995	36,172	6,131	16.95%	11.42%	2.52%	8.22%	2.02%	0.00%
MY-1996	45,713	7,130	15.60%	6.30%	0.87%	1.56%	1.08%	10.68%
MY-1997	39,908	5,957	14.93%	5.69%	1.05%	1.55%	1.09%	10.38%
MY-1998	68,121	6,819	10.01%	3.01%	0.55%	0.82%	0.70%	7.39%
MY-1999	42,421	4,233	9.98%	2.41%	0.47%	0.71%	0.69%	7.88%
MY-2000	111,947	7,954	7.11%	1.23%	0.28%	0.56%	0.46%	5.87%
MY-2001	33,048	2,644	8.00%	1.21%	0.30%	0.60%	0.52%	6.85%
MY-2002	123,645	6,256	5.06%	0.51%	0.12%	0.43%	0.33%	4.38%
MY-2003	16,028	670	4.18%	0.64%	0.15%	0.26%	0.27%	3.48%
MY-2004	16,141	532	3.30%	0.32%	0.12%	0.24%	0.12%	2.84%
MY-2005	7,080	213	3.01%	0.30%	0.06%	0.20%	0.13%	2.64%
MY-2006	5,627	144	2.56%	0.20%	0.04%	0.18%	0.20%	2.22%
MY-2007	5,422	123	2.27%	0.07%	0.02%	0.17%	0.11%	1.99%
MY-2008	3,362	63	1.87%	0.03%	0.03%	0.09%	0.06%	1.75%
MY-2009	217	2	0.92%	0.00%	0.00%	0.00%	0.00%	0.92%
All Model Years	765,828	96,830	12.64%	6.46%	1.95%	4.18%	1.43%	4.33%

**7. Referee Activity**

	Certificates Issued
Certificate of Compliance	0
Certificate of Non Compliance	0
Parts Cost	0
Hardship Extensions	0
Exempt Vehicle	0
Exempted by Directive	0
Parts Exemption	0
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>0</b>

**8. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,153
Stations Locked-Out at Least Once	128
Stations Conducted at Least One Test	7,195

**9. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,978	5,719
EA	Gas Endorsement	11	0
EB	Both Endorsement	57	0
EB	Gas Endorsement	523	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	409,834	49.60	47,055	50.52	456,889	49.69
Test and Repair	154,372	47.36	79,250	47.38	233,622	47.37
Test and Repair Dealer	15	43.60	4,069	52.01	4,084	51.98
Referee	0	0.00	0	0.00	0	0.00
Gold Shield in Enhanced Area	41,742	49.35	10,563	46.93	52,305	48.86
Gold Shield in Basic Area	0	0.00	5,261	37.56	5,261	37.56
Gold Shield in COO Area	77	55.60	3,940	52.30	4,017	52.36

**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	6,035	22.33	<b>21,539</b>	<b>227.56</b>
	\$51-150	4,945	101.27		
	\$151-250	3,697	199.32		
	\$251-450	4,078	335.11		
	Over \$450	2,784	776.75		
CAP Repairs	\$0-50	85	18.75	<b>331</b>	<b>167.38</b>
	\$51-150	110	93.19		
	\$151-250	68	188.72		
	\$251-450	35	343.49		
	Over \$450	33	566.76		
Total Repairs	\$0-50	6,036	22.36	<b>21,605</b>	<b>229.43</b>
	\$51-150	4,925	101.40		
	\$151-250	3,687	199.59		
	\$251-450	4,125	335.48		
	Over \$450	2,832	777.83		

**12. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	318	167.38

**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	Test and Repair	45	8	0	1	3	4	3	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	55	13	3	0	4	7	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
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	5	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	15	3	0	0	2	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	30,635	5,959	841	325	1,981	3,107	1,937	750
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	63	3	0	30	23	12	0
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	108,397	11,105	1,200	552	5,589	4,375	2,868	1,108
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	5	1	0	0	1	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	332,517	56,590	9,150	2,933	16,797	32,551	19,151	6,412
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,484	563	94	23	182	315	186	72
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	6	1	0	4	2	0	0
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,018	2,917	412	121	829	1,603	1,061	310
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,856	1,519	248	78	452	838	486	164
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,612	260	51	20	91	137	68	35
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	56	5	0	18	33	7	1
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,494	1,162	139	65	526	557	314	124
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,264	1,647	285	91	658	906	436	206
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	3,797	817	153	59	211	323	377	154
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	359	36	4	4	10	12	15	8
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,809	782	133	43	232	288	355	147
Two Speed Idle (TSI)	Basic	Test and Repair	42,295	5,606	925	283	1,736	1,938	2,522	651
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,933	175	21	6	57	53	64	25
Two Speed Idle (TSI)	Basic	Test Only	6,429	912	188	51	307	370	326	110
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	44	5	1	1	1	2	2	1

	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)	Change of Ownership	Gold Shield in COO Area	1,615	354	114	13	75	211	145	30
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	188	50	11	5	12	27	24	10
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,551	220	61	12	66	107	94	43
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	35	4	1	0	1	1	3	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	708	143	40	12	33	67	51	19
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	233	26	1	1	17	6	3	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	422	43	5	2	27	7	13	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,142	465	72	26	206	152	152	64
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	13	1	0	10	2	2	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	64	5	1	0	2	2	1	0
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,950	1,238	130	50	753	278	311	98
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	328	13	3	0	8	3	2	0
Two Speed Idle (TSI)	Enhanced	Test Only	32,456	2,842	431	106	1,599	818	631	234
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	33	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	41	3	1	1	0	2	1	2
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	290	40	2	2	21	6	16	4
Two Speed Idle (TSI)	Partial	Test and Repair	1,857	177	26	8	78	50	64	15
Two Speed Idle (TSI)	Partial	Test Only	867	78	20	7	31	29	23	9
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	224	52	12	7	24	23	13	9
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	871	100	28	13	29	50	35	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	669	59	8	4	29	16	22	9
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	7	1	0	3	3	1	0
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,481	467	51	26	257	111	149	55
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	384	11	2	0	9	2	1	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,144	194	35	18	111	61	31	25