

# Executive Summary Report

## SMOG CHECK Statewide

August 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	780,666	97,147	12.44%
Total	894,391	119,452	13.36%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	673,803	86.31%	106,863	13.69%
Total	760,631	85.04%	133,760	14.96%

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

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	406,467	86.10%	65,626	13.90%
Total	463,338	85.18%	80,616	14.82%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	14,900	1.91%
All Emissions	50,206	6.43%
All Visual	11,113	1.42%
All Functional	35,094	4.50%
OBDII	29,094	3.73%
Overall	97,147	12.44%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	629,273	79,031	12.56%	11,977	1.90%
Partially Enhanced	36,752	5,337	14.52%	767	2.09%
Basic	69,507	8,204	11.80%	1,349	1.94%
Change of Ownership	4,901	737	15.04%	188	3.84%
No Program	1	0	0.00%	0	0.00%
Unknown Program	40,232	3,838	9.54%	619	1.54%
Total Program Area	780,666	97,147	12.44%	14,900	1.91%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	472,093	64,481	13.66%	10,578	2.24%
Regular	240,189	22,595	9.41%	2,847	1.19%
Basic Area Dealer	4,026	219	5.44%	18	0.45%
Gold Shield in Enhanced Area	53,505	8,319	15.55%	1,153	2.15%
Gold Shield in Basic Area	5,458	910	16.67%	180	3.30%
Gold Shield in COO Area	3,540	456	12.88%	108	3.05%
Business Fleet	5	1	20.00%	0	0.00%
Permanent Fleet Registered	89	3	3.37%	2	2.25%
Referee	33	14	42.42%	5	15.15%
Government Fleet	1,725	149	8.64%	9	0.52%
Unknown Privilege	3	0	0.00%	0	0.00%
Total	780,666	97,147	12.44%	14,900	1.91%

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

	Initial Tests	Certificates Issued
Volunteers	247,766	222,347
Directed Vehicles	224,327	184,120
Total	472,093	406,467

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

	Initial Tests	Certificates Issued
Volunteers	45,853	39,634
Directed Vehicles	16,650	12,782
Total	62,503	52,416

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	92,630	4,882	5.27%	1.29%	0.41%	4.27%	0.48%	0.00%
MY-1974	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	9	2	22.22%	22.22%	11.11%	11.11%	0.00%	0.00%
MY-1976	1,212	361	29.79%	19.47%	9.57%	16.34%	8.91%	0.00%
MY-1977	1,706	502	29.43%	17.70%	7.97%	19.64%	8.03%	0.00%
MY-1978	1,875	594	31.68%	20.69%	9.97%	20.69%	9.33%	0.00%
MY-1979	2,099	692	32.97%	22.63%	11.24%	20.63%	8.34%	0.00%
MY-1980	1,295	371	28.65%	19.92%	11.04%	16.14%	7.72%	0.00%
MY-1981	1,575	489	31.05%	23.81%	11.05%	16.06%	8.32%	0.00%
MY-1982	1,757	551	31.36%	24.02%	10.76%	17.02%	8.42%	0.00%
MY-1983	2,580	743	28.80%	22.05%	10.43%	15.16%	7.98%	0.00%
MY-1984	4,505	1,388	30.81%	23.40%	12.50%	16.96%	7.35%	0.00%
MY-1985	6,178	1,824	29.52%	22.40%	9.94%	16.40%	6.18%	0.00%
MY-1986	9,600	2,623	27.32%	20.06%	8.93%	15.10%	5.29%	0.00%
MY-1987	10,807	3,096	28.65%	21.72%	8.13%	15.12%	5.14%	0.00%
MY-1988	13,390	3,389	25.31%	18.99%	7.44%	13.86%	3.80%	0.00%
MY-1989	17,809	4,056	22.78%	16.15%	5.67%	12.81%	3.67%	0.00%
MY-1990	20,754	4,685	22.57%	16.39%	5.77%	11.78%	3.10%	0.00%
MY-1991	24,015	4,928	20.52%	14.68%	4.78%	10.44%	2.44%	0.00%
MY-1992	24,393	4,701	19.27%	13.76%	4.35%	9.59%	2.29%	0.00%
MY-1993	28,950	6,243	21.56%	16.08%	3.69%	9.90%	2.15%	0.00%
MY-1994	37,510	6,647	17.72%	11.85%	2.64%	8.84%	1.90%	0.00%
MY-1995	35,285	5,926	16.79%	11.17%	2.25%	8.07%	1.94%	0.00%
MY-1996	47,593	7,100	14.92%	6.18%	0.95%	1.46%	0.99%	10.13%
MY-1997	39,757	5,819	14.64%	5.47%	0.87%	1.44%	1.11%	10.10%
MY-1998	68,551	6,754	9.85%	3.20%	0.56%	0.81%	0.76%	7.04%
MY-1999	43,915	4,186	9.53%	2.35%	0.46%	0.68%	0.71%	7.48%
MY-2000	112,406	7,488	6.66%	1.21%	0.25%	0.55%	0.48%	5.38%
MY-2001	28,848	2,290	7.94%	1.10%	0.25%	0.60%	0.47%	6.86%
MY-2002	76,322	3,977	5.21%	0.56%	0.15%	0.44%	0.38%	4.47%
MY-2003	9,017	363	4.03%	0.53%	0.23%	0.32%	0.20%	3.44%
MY-2004	7,524	296	3.93%	0.37%	0.12%	0.35%	0.17%	3.32%
MY-2005	2,634	81	3.08%	0.08%	0.00%	0.38%	0.08%	2.62%
MY-2006	1,806	52	2.88%	0.11%	0.00%	0.22%	0.06%	2.55%
MY-2007	1,557	37	2.38%	0.00%	0.00%	0.06%	0.13%	2.25%
MY-2008	748	9	1.20%	0.00%	0.00%	0.13%	0.00%	1.07%
MY-2009	51	2	3.92%	0.00%	0.00%	0.00%	0.00%	3.92%
All Model Years	780,666	97,147	12.44%	6.43%	1.91%	4.50%	1.42%	3.73%

**7. Referee Activity**

	Certificates Issued
Certificate of Compliance	28
Certificate of Non Compliance	0
Parts Cost	1
Hardship Extensions	16
Exempt Vehicle	0
Exempted by Directive	5
Parts Exemption	2
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>52</b>

**8. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,163
Stations Locked-Out at Least Once	188
Stations Conducted at Least One Test	7,236

**9. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,099	5,873
EA	Gas Endorsement	11	0
EB	Both Endorsement	58	0
EB	Gas Endorsement	530	0
EU	Gas Endorsement	1	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	403,570	49.58	45,593	50.42	449,163	49.67
Test and Repair	154,125	47.50	77,901	47.61	232,026	47.54
Test and Repair Dealer	6	61.50	3,985	50.41	3,991	50.42
Referee	18	30.00	6	30.00	24	30.00
Gold Shield in Enhanced Area	41,830	49.01	10,199	45.38	52,029	48.30
Gold Shield in Basic Area	0	0.00	5,339	37.61	5,339	37.61
Gold Shield in COO Area	20	66.85	3,493	51.98	3,513	52.07

**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	6,508	21.97	<b>22,718</b>	<b>230.53</b>
	\$51-150	5,152	101.78		
	\$151-250	3,846	200.53		
	\$251-450	4,212	335.81		
	Over \$450	3,000	794.73		
CAP Repairs	\$0-50	117	19.42	<b>1,013</b>	<b>316.34</b>
	\$51-150	160	95.39		
	\$151-250	130	200.55		
	\$251-450	253	352.00		
	Over \$450	353	531.99		
Total Repairs	\$0-50	6,361	22.01	<b>22,942</b>	<b>242.25</b>
	\$51-150	4,972	101.70		
	\$151-250	3,833	200.87		
	\$251-450	4,382	336.85		
	Over \$450	3,394	785.51		

**12. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	955	316.34

**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	16	5	1	0	0	3	3	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	124	17	2	2	4	8	5	4

	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	102	17	1	1	3	11	6	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	4	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	16	3	1	0	0	3	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	31,573	6,203	818	308	1,871	3,266	2,075	762
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	63	3	0	14	30	22	0
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	32	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	14	8	3	2	1	5	4	5
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	113,832	10,935	1,122	522	4,809	4,419	3,379	1,038
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	341,878	57,168	9,364	3,043	15,413	33,286	20,262	6,647
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,639	550	82	25	168	292	205	48
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	15,887	2,931	397	142	774	1,566	1,130	318
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,891	1,566	232	91	371	891	541	174
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,555	262	31	22	53	125	121	40
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	44	1	0	13	28	5	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	1	2	0	1	1	1	1	1
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	10,811	1,091	156	67	205	516	548	137
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,929	1,563	278	103	278	865	736	202
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	3,873	820	169	67	218	303	395	121
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	239	25	8	0	8	12	13	3
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,832	672	104	47	200	225	297	129
Two Speed Idle (TSI)	Basic	Referee	2	3	1	0	1	1	0	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)	Basic	Test and Repair	42,070	5,508	856	286	1,653	1,862	2,577	656
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,906	184	16	14	58	42	82	32
Two Speed Idle (TSI)	Basic	Test Only	6,575	950	191	47	302	414	350	106
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	31	6	2	0	1	4	3	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,508	308	75	11	60	151	141	34
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	175	52	15	5	13	25	26	12
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,598	233	60	21	54	100	104	36
Two Speed Idle (TSI)	Change of Ownership	Test Only	714	131	35	14	26	63	52	26
Two Speed Idle (TSI)	Enhanced	Business-Fleet	0	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	352	39	2	2	23	6	12	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	394	31	4	1	14	9	11	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,226	476	83	28	196	145	168	64
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	20	4	0	5	10	4	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	32	2	1	0	0	2	0	0
Two Speed Idle (TSI)	Enhanced	Test and Repair	19,893	1,251	153	65	621	286	427	126
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	368	13	0	2	9	3	1	2
Two Speed Idle (TSI)	Enhanced	Test Only	32,499	2,819	419	115	1,354	844	798	232
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	268	36	3	5	16	7	12	7
Two Speed Idle (TSI)	Partial	Test and Repair	1,799	163	31	12	50	60	71	18
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	43	4	0	0	2	1	1	0
Two Speed Idle (TSI)	Partial	Test Only	947	74	22	7	25	27	25	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	241	41	7	9	11	14	21	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	831	89	21	7	16	36	47	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	561	63	16	2	12	24	37	9
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	13	1	0	4	2	7	0
Two Speed Idle (TSI)	Unknown Program	Referee	2	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,121	464	70	35	108	151	247	61
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	341	15	2	1	4	4	7	3
Two Speed Idle (TSI)	Unknown Program	Test Only	2,916	190	35	6	43	53	103	16