

# Executive Summary Report

## SMOG CHECK Statewide

Fourth Quarter 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	2,115,081	271,625	12.84%
Total	2,452,624	349,006	14.23%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,805,334	85.36%	309,747	14.64%
Total	2,051,989	83.67%	400,635	16.33%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,111,228	85.78%	184,273	14.22%
Total	1,266,272	84.89%	225,466	15.11%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	41,324	1.95%
All Emissions	134,805	6.37%
All Visual	31,960	1.51%
All Functional	181,145	8.56%
OBDII	97,549	4.61%
Overall	271,625	12.84%

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

	Initial Tests	Certificates Issued
Volunteers	639,462	569,475
Directed Vehicles	656,039	541,753
Total	1,295,501	1,111,228

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	131,043	109,369
Directed Vehicles	50,461	38,026
Total	181,504	147,395

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,149	277	522	38	0	4,986
Test Only	2,218	46	19	1	0	2,284
Basic Area Dealer	0	1	116	0	0	117
Gold Shield	506	34	66	80	0	686
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	31	1	5	0	0	37
Referee	36	0	6	1	0	43
Government Fleet	243	9	37	2	0	291
Unknown Type	1	0	0	0	0	1
Total	7,187	368	771	122	0	8,448

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	1,694,773	219,984	12.98%	32,973	1.95%
Partially Enhanced	103,749	15,494	14.93%	2,340	2.26%
Basic	193,606	23,227	12.00%	3,807	1.97%
Change of Ownership	13,619	2,113	15.52%	541	3.97%
No Program	9	1	11.11%	0	0.00%
Unknown Program	109,325	10,806	9.88%	1,663	1.52%
Total Program Area	2,115,081	271,625	12.84%	41,324	1.95%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	1,295,501	179,087	13.82%	28,714	2.22%
Regular	617,614	59,350	9.61%	7,570	1.23%
Basic Area Dealer	10,930	574	5.25%	60	0.55%
Gold Shield in Enhanced Area	154,823	26,297	16.99%	3,757	2.43%
Gold Shield in Basic Area	15,613	2,779	17.80%	503	3.22%
Gold Shield in COO Area	11,068	1,548	13.99%	408	3.69%
Business Fleet	45	0	0.00%	0	0.00%
Permanent Fleet Registered	210	23	10.95%	3	1.43%
Referee	2,695	1,380	51.21%	258	9.57%
Government Fleet	6,579	585	8.89%	51	0.78%
Unknown Privilege	3	2	66.67%	0	0.00%
Total	2,115,081	271,625	12.84%	41,324	1.95%

10. 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-1965	6	5	83.33%	66.67%	66.67%	0.00%	0.00%	0.00%
MY-1966	3	1	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%
MY-1968	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1971	1	1	100.00%	100.00%	0.00%	100.00%	0.00%	0.00%
MY-1972	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	7	3	42.86%	28.57%	0.00%	28.57%	28.57%	0.00%
MY-1975	23	13	56.52%	39.13%	17.39%	26.09%	21.74%	0.00%
MY-1976	3,123	950	30.42%	20.14%	9.80%	18.86%	8.13%	0.00%
MY-1977	4,625	1,365	29.51%	17.90%	8.74%	20.02%	9.17%	0.00%
MY-1978	5,204	1,465	28.15%	16.89%	8.22%	18.52%	8.09%	0.00%
MY-1979	6,203	1,994	32.15%	19.91%	9.91%	21.15%	8.62%	0.00%
MY-1980	3,875	1,103	28.46%	19.54%	10.43%	18.06%	8.18%	0.00%
MY-1981	4,272	1,284	30.06%	22.64%	11.05%	17.09%	8.19%	0.00%
MY-1982	5,333	1,586	29.74%	22.43%	11.01%	17.72%	8.04%	0.00%
MY-1983	6,381	1,905	29.85%	22.68%	10.44%	16.52%	7.79%	0.00%
MY-1984	12,622	3,885	30.78%	23.56%	11.83%	17.36%	7.15%	0.00%
MY-1985	16,783	4,961	29.56%	22.40%	10.60%	16.76%	6.87%	0.00%
MY-1986	24,360	6,808	27.95%	20.28%	9.46%	16.20%	5.83%	0.00%
MY-1987	30,873	8,674	28.10%	21.26%	8.55%	15.26%	5.11%	0.00%
MY-1988	34,458	9,084	26.36%	19.31%	7.48%	14.70%	4.60%	0.00%
MY-1989	47,857	11,344	23.70%	16.56%	6.08%	13.46%	3.85%	0.00%
MY-1990	55,670	12,507	22.47%	15.92%	5.52%	12.16%	3.23%	0.00%
MY-1991	68,133	14,196	20.84%	14.89%	4.96%	11.09%	2.65%	0.00%
MY-1992	64,140	12,504	19.49%	13.87%	4.57%	10.16%	2.52%	0.00%
MY-1993	78,241	17,096	21.85%	16.17%	4.00%	10.40%	2.51%	0.00%
MY-1994	94,836	17,800	18.77%	12.40%	2.83%	9.61%	2.24%	0.00%
MY-1995	102,112	17,198	16.84%	11.27%	2.58%	8.31%	2.10%	0.00%
MY-1996	119,945	20,105	16.76%	6.61%	1.08%	12.36%	1.33%	11.62%
MY-1997	112,815	17,190	15.24%	5.66%	1.09%	11.55%	1.15%	10.88%
MY-1998	173,740	19,099	10.99%	3.30%	0.58%	8.61%	0.76%	8.25%
MY-1999	130,888	12,460	9.52%	2.22%	0.45%	7.91%	0.70%	7.60%
MY-2000	273,028	21,624	7.92%	1.37%	0.32%	6.88%	0.52%	6.60%
MY-2001	129,787	9,306	7.17%	0.92%	0.22%	6.44%	0.45%	6.21%
MY-2002	309,022	17,834	5.77%	0.57%	0.15%	5.26%	0.40%	5.07%
MY-2003	93,438	3,166	3.39%	0.34%	0.09%	3.01%	0.23%	2.85%
MY-2004	39,082	1,403	3.59%	0.30%	0.08%	3.26%	0.23%	3.09%
MY-2005	23,817	843	3.54%	0.31%	0.09%	3.14%	0.27%	3.01%
MY-2006	15,347	430	2.80%	0.27%	0.06%	2.44%	0.25%	2.29%
MY-2007	12,603	243	1.93%	0.13%	0.02%	1.71%	0.13%	1.59%
MY-2008	11,079	172	1.55%	0.13%	0.06%	1.34%	0.14%	1.19%
MY-2009	1,344	18	1.34%	0.00%	0.00%	1.26%	0.07%	1.26%
All Model Years	2,115,081	271,625	12.84%	6.37%	1.95%	8.56%	1.51%	4.61%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	1,999
Certificate of Non Compliance	3
Parts Cost	329
Hardship Extensions	732
Exempt Vehicle	87
Exempted by Directive	443
Parts Exemption	15
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>3,608</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,011
Stations Locked-Out at Least Once	822
Stations Conducted at Least One Test	7,437

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,549	5,633
EA	Gas Endorsement	11	0
EB	Both Endorsement	57	0
EB	Gas Endorsement	538	0
GU	Both Endorsement	20	0

**14. 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	1,142,072	49.30	137,959	50.32	1,280,031	49.41
Test and Repair	397,664	47.14	212,907	46.92	610,571	47.06
Test and Repair Dealer	28	67.18	10,902	50.94	10,930	50.98
Referee	1,316	30.00	453	30.00	1,769	30.00
Gold Shield in Enhanced Area	121,765	48.98	32,606	46.15	154,371	48.38
Gold Shield in Basic Area	0	0.00	15,613	37.62	15,613	37.62
Gold Shield in COO Area	67	58.04	11,001	51.84	11,068	51.88

**15. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	20,158	22.02	<b>65,250</b>	<b>208.70</b>
	\$51-150	16,565	100.86		
	\$151-250	10,364	199.56		
	\$251-450	10,695	337.47		
	Over \$450	7,468	780.06		
CAP Repairs	\$1-50	384	23.99	<b>13,504</b>	<b>383.34</b>
	\$51-150	821	107.79		
	\$151-250	1,621	204.25		
	\$251-450	4,897	355.09		
	Over \$450	5,781	520.49		
Total Repairs	\$1-50	16,579	22.24	<b>68,564</b>	<b>274.11</b>
	\$51-150	13,062	101.03		
	\$151-250	10,605	200.94		
	\$251-450	14,185	344.21		
	Over \$450	14,133	714.08		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	12,519	383.34

**17. 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	22	10	1	0	0	7	6	1
Acceleration Simulation Mode (ASM)	Basic	Referee	1	6	2	1	1	2	5	3

	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	123	16	1	0	9	7	11	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	111	18	1	2	9	5	14	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	4	1	0	1	0	1	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	1	1	1	0	0	1	1	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	54	7	2	0	6	2	6	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	85,660	19,211	2,691	923	6,861	9,726	12,760	2,334
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	277	11	4	132	104	178	9
Acceleration Simulation Mode (ASM)	Enhanced	Referee	805	891	152	331	234	433	475	437
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	275,014	27,821	2,886	1,418	14,629	10,662	20,666	2,683
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	6	2	0	1	0	1	0	1
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	927,495	157,936	25,353	8,236	50,086	88,167	100,803	18,303
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	3	2	1	0	1	1	2	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	7,756	2,027	293	106	681	1,030	1,319	269
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	28	77	17	33	13	45	45	51
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	43,474	7,925	1,141	426	2,320	4,110	5,106	969
Acceleration Simulation Mode (ASM)	Partial	Test Only	24,951	4,555	718	267	1,395	2,474	2,815	546
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	4,305	767	110	64	320	357	523	112
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	167	10	1	50	107	63	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	114	74	13	23	12	42	42	36

	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)	Unknown Program	Test and Repair	29,425	3,037	401	174	1,360	1,409	2,078	363
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	30,850	4,287	710	290	1,724	2,293	2,808	573
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	1	2	0	0	0	1	1	0
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	11,199	2,564	464	224	765	963	1,766	427
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	991	141	34	8	46	66	95	17
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	12,274	2,326	337	166	711	736	1,680	462
Two Speed Idle (TSI)	Basic	Government Fleet	0	45	11	1	16	15	30	2
Two Speed Idle (TSI)	Basic	Referee	97	163	31	78	27	52	89	106
Two Speed Idle (TSI)	Basic	Test and Repair	113,809	14,811	2,371	809	4,887	5,013	10,935	1,762
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	7,938	492	55	24	183	148	370	62
Two Speed Idle (TSI)	Basic	Test Only	17,896	2,635	499	149	979	1,048	1,803	302
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	121	29	7	4	6	11	21	7
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	4,486	980	257	59	215	504	612	122
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	546	131	47	9	30	74	89	28
Two Speed Idle (TSI)	Change of Ownership	Referee	12	21	6	10	4	8	13	13
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	3,993	573	124	43	175	235	416	95
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	67	5	1	0	3	2	4	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	2,034	369	98	24	98	169	240	48
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	672	63	7	2	42	13	56	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	1,130	104	19	1	54	32	80	8
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	12,363	1,481	216	65	759	409	1,178	157
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	60	13	0	23	23	37	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	101	16	3	0	4	8	10	5
Two Speed Idle (TSI)	Enhanced	Referee	152	103	15	50	45	25	62	62
Two Speed Idle (TSI)	Enhanced	Test and Repair	51,034	3,441	399	182	2,044	781	2,796	344
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	815	41	1	1	30	3	37	2
Two Speed Idle (TSI)	Enhanced	Test Only	97,230	8,524	1,205	387	4,945	2,402	6,445	772

	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)	Partial	Gold Shield in Basic Area	88	10	0	1	2	4	6	2
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	118	7	2	0	3	2	6	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	894	122	29	5	50	48	89	13
Two Speed Idle (TSI)	Partial	Test and Repair	5,193	522	90	32	238	168	384	66
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	114	4	0	0	2	1	3	1
Two Speed Idle (TSI)	Partial	Test Only	2,557	234	49	12	115	88	162	32
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	548	113	25	12	38	39	80	24
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	2,410	307	93	18	106	144	224	54
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	1,750	221	33	16	105	67	163	27
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	33	6	0	19	9	26	0
Two Speed Idle (TSI)	Unknown Program	Referee	87	39	21	6	11	24	20	17
Two Speed Idle (TSI)	Unknown Program	Test and Repair	13,203	1,202	157	80	602	317	956	147
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	943	28	3	1	18	6	25	2
Two Speed Idle (TSI)	Unknown Program	Test Only	8,081	528	81	36	293	159	393	65
UnKnown TestType	Change of Ownership	Referee	2	1	0	0	0	1	0	1