

# Executive Summary Report

## SMOG CHECK Statewide

First Quarter 2009

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	2,577,340	331,740	12.87%
Total	2,994,516	426,499	14.24%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	2,205,794	85.58%	371,546	14.42%
Total	2,513,717	83.94%	480,799	16.06%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,349,191	85.71%	224,925	14.29%
Total	1,547,173	84.78%	277,793	15.22%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	49,853	1.93%
All Emissions	164,040	6.36%
All Visual	39,648	1.54%
All Functional	221,473	8.59%
OBDII	122,613	4.76%
Overall	331,740	12.87%

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

	Initial Tests	Certificates Issued
Volunteers	813,593	727,140
Directed Vehicles	760,523	622,051
Total	1,574,116	1,349,191

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	163,789	139,151
Directed Vehicles	60,110	45,075
Total	223,899	184,226

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,074	269	523	39	0	4,905
Test Only	2,222	47	18	1	0	2,288
Basic Area Dealer	0	1	114	0	0	115
Gold Shield	499	37	69	76	0	681
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	7,109	364	772	119	0	8,364

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	2,071,015	269,732	13.02%	39,775	1.92%
Partially Enhanced	129,764	19,482	15.01%	2,939	2.26%
Basic	230,429	27,339	11.86%	4,588	1.99%
Change of Ownership	16,379	2,486	15.18%	628	3.83%
No Program	15	2	13.33%	1	6.67%
Unknown Program	129,738	12,699	9.79%	1,922	1.48%
Total Program Area	2,577,340	331,740	12.87%	49,853	1.93%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	1,574,116	220,584	14.01%	34,987	2.22%
Regular	749,244	70,532	9.41%	8,768	1.17%
Basic Area Dealer	13,372	699	5.23%	70	0.52%
Gold Shield in Enhanced Area	190,776	32,275	16.92%	4,553	2.39%
Gold Shield in Basic Area	19,794	3,435	17.35%	642	3.24%
Gold Shield in COO Area	13,328	1,832	13.75%	457	3.43%
Business Fleet	55	3	5.45%	0	0.00%
Permanent Fleet Registered	141	21	14.89%	3	2.13%
Referee	2,433	1,233	50.68%	284	11.67%
Government Fleet	14,074	1,126	8.00%	89	0.63%
Unknown Privilege	6	0	0.00%	0	0.00%
Total	2,577,340	331,740	12.87%	49,853	1.93%

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	15	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1934	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1947	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1960	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1964	2	2	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1965	4	3	75.00%	75.00%	75.00%	0.00%	0.00%	0.00%
MY-1966	1	0	0.00%	0.00%	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-1972	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	3	3	100.00%	66.67%	33.33%	66.67%	66.67%	0.00%
MY-1974	12	5	41.67%	25.00%	8.33%	25.00%	8.33%	0.00%
MY-1975	24	1	4.17%	4.17%	0.00%	0.00%	0.00%	0.00%
MY-1976	3,908	1,169	29.91%	19.83%	8.96%	17.99%	8.50%	0.00%
MY-1977	5,402	1,573	29.12%	17.51%	8.55%	19.47%	8.61%	0.00%
MY-1978	6,180	1,896	30.68%	18.67%	9.32%	19.82%	9.27%	0.00%
MY-1979	7,107	2,229	31.36%	19.88%	9.03%	20.25%	8.96%	0.00%
MY-1980	4,312	1,264	29.31%	19.85%	10.23%	18.48%	8.81%	0.00%
MY-1981	4,897	1,484	30.30%	22.81%	10.82%	17.64%	9.13%	0.00%
MY-1982	5,627	1,687	29.98%	22.45%	9.95%	16.49%	8.76%	0.00%
MY-1983	7,575	2,301	30.38%	23.06%	10.83%	17.04%	8.01%	0.00%
MY-1984	14,113	4,358	30.88%	23.91%	11.80%	17.54%	7.96%	0.00%
MY-1985	19,254	5,772	29.98%	22.72%	11.02%	17.32%	6.92%	0.00%
MY-1986	26,586	7,502	28.22%	20.84%	9.64%	16.09%	6.13%	0.00%
MY-1987	32,256	9,314	28.88%	22.02%	9.15%	15.71%	5.50%	0.00%
MY-1988	39,493	10,354	26.22%	19.29%	7.42%	14.41%	4.72%	0.00%
MY-1989	53,451	12,867	24.07%	17.27%	6.53%	13.74%	4.04%	0.00%
MY-1990	64,727	14,830	22.91%	16.44%	5.91%	12.41%	3.28%	0.00%
MY-1991	73,938	16,045	21.70%	15.50%	5.04%	11.80%	2.84%	0.00%
MY-1992	75,626	15,663	20.71%	14.83%	4.97%	10.57%	2.74%	0.00%
MY-1993	88,520	20,189	22.81%	17.17%	4.30%	10.64%	2.70%	0.00%
MY-1994	106,335	21,396	20.12%	13.52%	3.14%	10.40%	2.51%	0.00%
MY-1995	144,755	23,707	16.38%	11.09%	2.50%	7.88%	2.07%	0.00%
MY-1996	107,791	21,024	19.50%	8.22%	1.42%	14.29%	1.55%	13.44%
MY-1997	179,731	25,954	14.44%	5.44%	0.95%	10.76%	1.10%	10.12%
MY-1998	146,349	19,482	13.31%	4.20%	0.81%	10.41%	0.98%	9.97%
MY-1999	239,515	21,124	8.82%	2.08%	0.40%	7.21%	0.68%	6.91%
MY-2000	158,572	17,236	10.87%	2.14%	0.53%	9.33%	0.77%	9.00%
MY-2001	325,150	22,023	6.77%	0.79%	0.19%	6.10%	0.46%	5.87%
MY-2002	134,409	10,837	8.06%	0.93%	0.24%	7.29%	0.57%	7.09%
MY-2003	346,623	13,845	3.99%	0.34%	0.10%	3.61%	0.28%	3.46%
MY-2004	43,592	1,621	3.72%	0.36%	0.10%	3.36%	0.23%	3.17%
MY-2005	57,132	1,786	3.13%	0.18%	0.06%	2.90%	0.17%	2.75%
MY-2006	20,701	583	2.82%	0.19%	0.06%	2.50%	0.21%	2.37%
MY-2007	14,768	356	2.41%	0.13%	0.02%	2.19%	0.16%	2.09%
MY-2008	15,762	181	1.15%	0.11%	0.08%	0.99%	0.12%	0.84%
MY-2009	3,095	73	2.36%	0.94%	0.90%	1.39%	0.16%	1.20%
MY-2010	19	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-2011	1	1	100.00%	0.00%	0.00%	100.00%	0.00%	100.00%
All Model Years	2,577,340	331,740	12.87%	6.36%	1.93%	8.59%	1.54%	4.76%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	1,896
Certificate of Non Compliance	1
Parts Cost	362
Hardship Extensions	1,013
Exempt Vehicle	237
Exempted by Directive	420
Parts Exemption	32
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>3,961</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,044
Stations Locked-Out at Least Once	891
Stations Conducted at Least One Test	7,320

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,471	6,011
EA	Gas Endorsement	10	0
EB	Both Endorsement	55	0
EB	Gas Endorsement	537	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	1,387,648	49.15	167,100	50.20	1,554,748	49.27
Test and Repair	490,071	47.02	250,419	47.11	740,490	47.05
Test and Repair Dealer	83	65.45	13,289	49.85	13,372	49.95
Referee	1,054	30.00	480	30.00	1,534	30.00
Gold Shield in Enhanced Area	150,344	48.95	39,849	46.46	190,193	48.43
Gold Shield in Basic Area	1	73.00	19,793	39.99	19,794	39.99
Gold Shield in COO Area	122	44.88	13,206	50.36	13,328	50.31

**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	23,305	22.04	<b>75,147</b>	<b>214.47</b>
	\$51-150	18,895	99.80		
	\$151-250	11,386	199.39		
	\$251-450	12,551	337.31		
	Over \$450	9,010	800.61		
CAP Repairs	\$1-50	436	23.48	<b>14,797</b>	<b>395.00</b>
	\$51-150	785	107.13		
	\$151-250	1,573	206.26		
	\$251-450	5,068	354.60		
	Over \$450	6,935	523.28		
Total Repairs	\$1-50	19,336	22.25	<b>78,309</b>	<b>280.45</b>
	\$51-150	15,149	99.57		
	\$151-250	11,367	200.78		
	\$251-450	15,870	344.20		
	Over \$450	16,587	740.22		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	13,870	395.00

**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	30	8	2	0	2	6	4	0
Acceleration Simulation Mode (ASM)	Basic	Referee	1	2	0	0	0	2	1	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)	Basic	Test and Repair	150	19	4	0	6	9	12	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	112	17	2	1	7	8	12	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	12	3	0	1	0	3	0	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	27	3	2	0	0	2	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	87	24	2	6	12	7	15	7
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	106,564	23,376	3,132	1,175	8,489	11,737	15,385	2,951
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	352	12	3	212	100	255	6
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	22	7	1	0	2	3	4	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	634	757	157	309	160	385	422	420
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	346,323	34,333	3,436	1,709	18,882	12,564	25,879	3,446
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	1,126,034	194,293	30,852	10,871	63,072	108,342	124,055	23,195
Acceleration Simulation Mode (ASM)	No Program	Test Only	7	2	1	0	0	2	1	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	11,043	2,822	454	150	998	1,445	1,870	353
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	5	1	0	4	1	4	0
Acceleration Simulation Mode (ASM)	Partial	Referee	38	54	9	30	6	26	26	37
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	52,610	9,484	1,383	469	3,003	4,947	6,085	1,140
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	36	9	0	1	3	5	4	2
Acceleration Simulation Mode (ASM)	Partial	Test Only	32,934	5,957	910	349	1,904	3,224	3,733	747
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	4,655	906	132	69	371	467	606	136
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	653	57	1	141	461	224	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
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	118	74	21	30	16	44	43	43
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	35,459	3,352	437	209	1,564	1,513	2,328	391
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair Dealer	7	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	34,635	5,106	859	355	2,121	2,678	3,424	717
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	14,353	3,130	595	210	968	1,182	2,204	431
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	1,413	216	46	16	64	82	158	28
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	15,867	2,868	460	195	1,012	918	2,069	562
Two Speed Idle (TSI)	Basic	Government Fleet	0	17	3	0	9	6	11	0
Two Speed Idle (TSI)	Basic	Referee	109	158	37	77	33	64	92	105
Two Speed Idle (TSI)	Basic	Test and Repair	133,881	16,864	2,673	869	5,828	5,635	12,420	1,910
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	9,643	584	67	34	220	148	432	84
Two Speed Idle (TSI)	Basic	Test Only	22,309	3,456	699	189	1,304	1,358	2,351	421
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	153	35	9	2	8	15	23	7
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	5,417	1,143	315	63	273	578	726	134
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	696	165	38	19	43	66	124	36
Two Speed Idle (TSI)	Change of Ownership	Referee	15	21	5	8	5	9	13	10
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	4,716	646	142	38	242	257	463	74
Two Speed Idle (TSI)	Change of Ownership	Test Only	2,515	461	117	38	117	229	287	72
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	882	114	11	10	78	20	91	15
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	1,467	104	14	8	58	27	82	12
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	14,845	1,754	275	92	891	498	1,346	223
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	66	13	0	33	23	44	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	31	11	2	1	1	4	4	8
Two Speed Idle (TSI)	Enhanced	Referee	140	110	22	52	43	34	58	64
Two Speed Idle (TSI)	Enhanced	Test and Repair	64,247	3,987	432	205	2,465	878	3,235	389
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	1,175	55	3	0	47	4	54	3
Two Speed Idle (TSI)	Enhanced	Test Only	118,570	10,382	1,411	455	5,980	2,874	7,929	938

	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	125	16	2	3	9	4	11	3
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	152	15	2	1	5	4	12	2
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	1,203	149	32	7	74	51	107	15
Two Speed Idle (TSI)	Partial	Referee	5	2	1	1	1	2	2	2
Two Speed Idle (TSI)	Partial	Test and Repair	6,206	657	99	36	312	201	495	90
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	144	10	0	0	6	2	8	0
Two Speed Idle (TSI)	Partial	Test Only	3,116	299	46	15	158	84	224	31
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	644	140	25	24	52	40	106	36
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	2,740	329	78	32	119	140	231	64
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	1,875	226	28	21	105	71	173	42
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	30	3	0	16	7	24	0
Two Speed Idle (TSI)	Unknown Program	Referee	150	52	32	14	4	39	18	20
Two Speed Idle (TSI)	Unknown Program	Test and Repair	15,049	1,187	162	78	673	318	946	145
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	1,149	32	0	3	21	2	29	6
Two Speed Idle (TSI)	Unknown Program	Test Only	8,932	608	88	34	346	182	458	63
UnKnown TestType	Enhanced	Referee	24	2	0	0	0	2	0	2