

# Executive Summary Report

## SMOG CHECK Statewide

February 2007

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	755,026	94,993	12.58%
Total	887,566	126,105	14.21%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	642,862	85.14%	112,164	14.86%
Total	737,910	83.14%	149,656	16.86%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	375,761	85.28%	64,852	14.72%
Total	436,040	83.96%	83,279	16.04%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	16,646	2.20%
All Emissions	54,067	7.16%
All Visual	10,346	1.37%
All Functional	57,427	7.61%
OBDII	28,686	3.80%
Overall	94,993	12.58%

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

	Initial Tests	Certificates Issued
Volunteers	211,572	187,683
Directed Vehicles	229,041	188,078
Total	440,613	375,761

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	37,930	32,362
Directed Vehicles	198	27
Total	38,128	32,389

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,733	286	541	40	0	5,600
Test Only	2,052	40	17	1	0	2,110
Basic Area Dealer	1	1	120	0	0	122
Gold Shield	418	26	60	74	0	578
Business Fleet	5	1	0	0	0	6
Permanent Fleet Registered	36	1	6	0	0	43
Referee	34	0	6	1	0	41
Government Fleet	242	8	36	2	0	288
Unknown Type	2	0	0	0	0	2
Total	7,523	363	786	118	0	8,790

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	598,322	76,640	12.81%	13,158	2.20%
Partially Enhanced	36,877	5,270	14.29%	907	2.46%
Basic	68,360	7,761	11.35%	1,613	2.36%
Change of Ownership	5,655	774	13.69%	198	3.50%
No Program	5	0	0.00%	0	0.00%
Unknown Program	45,807	4,548	9.93%	770	1.68%
Total Program Area	755,026	94,993	12.58%	16,646	2.20%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	440,613	63,273	14.36%	11,849	2.69%
Regular	265,358	25,666	9.67%	3,764	1.42%
Basic Area Dealer	5,355	285	5.32%	42	0.78%
Gold Shield in Enhanced Area	27,294	3,418	12.52%	514	1.88%
Gold Shield in Basic Area	6,953	1,047	15.06%	253	3.64%
Gold Shield in COO Area	3,881	541	13.94%	135	3.48%
Business Fleet	25	1	4.00%	0	0.00%
Permanent Fleet Registered	89	14	15.73%	0	0.00%
Referee	659	302	45.83%	59	8.95%
Government Fleet	4,798	446	9.30%	30	0.63%
Unknown Privilege	1	0	0.00%	0	0.00%
Total	755,026	94,993	12.58%	16,646	2.20%

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-1959	1	1	100.00%	100.00%	0.00%	0.00%	100.00%	0.00%
MY-1965	2	1	50.00%	50.00%	50.00%	0.00%	0.00%	0.00%
MY-1966	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1968	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1972	2	2	100.00%	50.00%	50.00%	100.00%	50.00%	0.00%
MY-1973	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	9	2	22.22%	22.22%	0.00%	11.11%	11.11%	0.00%
MY-1975	15	4	26.67%	20.00%	6.67%	20.00%	6.67%	0.00%
MY-1976	1,460	431	29.52%	22.19%	11.16%	15.14%	9.45%	0.00%
MY-1977	2,116	536	25.33%	17.58%	7.89%	13.94%	7.23%	0.00%
MY-1978	2,321	581	25.03%	17.92%	8.23%	13.61%	7.97%	0.00%
MY-1979	2,752	697	25.33%	19.69%	9.19%	13.15%	7.49%	0.00%
MY-1980	1,786	488	27.32%	21.05%	11.14%	14.89%	8.73%	0.00%
MY-1981	2,036	613	30.11%	25.00%	12.03%	16.26%	8.35%	0.00%
MY-1982	2,313	666	28.79%	23.48%	10.42%	14.53%	7.61%	0.00%
MY-1983	3,196	904	28.29%	23.15%	9.82%	14.46%	7.32%	0.00%
MY-1984	6,023	1,781	29.57%	24.56%	12.57%	15.08%	6.76%	0.00%
MY-1985	8,235	2,348	28.51%	23.42%	11.60%	14.81%	6.00%	0.00%
MY-1986	11,304	2,886	25.53%	20.35%	8.94%	13.30%	5.02%	0.00%
MY-1987	13,791	3,685	26.72%	21.84%	8.97%	12.94%	4.52%	0.00%
MY-1988	16,475	3,914	23.76%	19.03%	7.27%	11.69%	3.70%	0.00%
MY-1989	22,058	4,584	20.78%	16.18%	5.78%	10.35%	2.99%	0.00%
MY-1990	25,874	4,985	19.27%	15.51%	5.18%	8.97%	2.42%	0.00%
MY-1991	28,768	4,991	17.35%	13.71%	4.55%	7.96%	1.86%	0.00%
MY-1992	28,783	4,799	16.67%	12.99%	4.08%	7.14%	1.71%	0.00%
MY-1993	33,163	5,878	17.72%	14.46%	3.11%	6.72%	1.56%	0.00%
MY-1994	39,226	5,673	14.46%	11.20%	2.42%	5.78%	1.61%	0.00%
MY-1995	53,261	6,350	11.92%	8.75%	1.81%	4.67%	1.30%	0.00%
MY-1996	35,542	6,512	18.32%	6.86%	1.10%	13.97%	1.10%	12.77%
MY-1997	63,621	7,779	12.23%	4.09%	0.69%	9.37%	0.68%	8.53%
MY-1998	47,593	5,515	11.59%	3.26%	0.60%	9.31%	0.65%	8.52%
MY-1999	82,029	5,661	6.90%	1.55%	0.25%	5.64%	0.37%	5.14%
MY-2000	45,748	4,023	8.79%	1.37%	0.33%	7.79%	0.47%	7.18%
MY-2001	111,244	6,299	5.66%	0.53%	0.12%	5.21%	0.28%	4.76%
MY-2002	19,384	884	4.56%	0.46%	0.13%	4.16%	0.22%	3.61%
MY-2003	22,630	776	3.43%	0.26%	0.05%	3.15%	0.11%	2.59%
MY-2004	7,595	274	3.61%	0.16%	0.09%	3.41%	0.17%	2.80%
MY-2005	5,867	195	3.32%	0.10%	0.02%	3.10%	0.19%	2.51%
MY-2006	6,941	217	3.13%	0.14%	0.09%	2.98%	0.04%	2.72%
MY-2007	1,857	56	3.02%	0.65%	0.54%	2.37%	0.16%	1.88%
MY-2008	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	755,026	94,993	12.58%	7.16%	2.20%	7.61%	1.37%	3.80%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	554
Certificate of Non Compliance	0
Parts Cost	76
Hardship Extensions	89
Exempt Vehicle	82
Exempted by Directive	127
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>931</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,237
Stations Locked-Out at Least Once	898
Stations Conducted at Least One Test	7,553

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,550	6,128
EA	Gas Endorsement	16	0
EB	Both Endorsement	55	0
EB	Gas Endorsement	568	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	398,918	48.15	38,799	48.26	437,717	48.16
Test and Repair	184,805	46.83	77,744	44.13	262,549	46.03
Test and Repair Dealer	14	63.64	5,363	46.64	5,377	46.68
Referee	414	30.00	169	30.00	583	30.00
Gold Shield in Enhanced Area	20,547	45.69	6,950	41.50	27,497	44.63
Gold Shield in Basic Area	13	54.08	7,014	33.45	7,027	33.49
Gold Shield in COO Area	95	58.09	3,842	48.04	3,937	48.29

### 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	6,771	22.63	<b>22,916</b>	<b>209.88</b>
	\$51-150	5,909	100.34		
	\$151-250	3,900	199.18		
	\$251-450	3,942	335.30		
	Over \$450	2,394	820.79		
CAP Repairs	\$1-50	144	25.00	<b>2,701</b>	<b>326.52</b>
	\$51-150	316	107.88		
	\$151-250	448	202.27		
	\$251-450	1,029	346.37		
	Over \$450	764	519.90		
Total Repairs	\$1-50	6,162	22.89	<b>23,614</b>	<b>241.02</b>
	\$51-150	5,216	100.71		
	\$151-250	4,098	199.47		
	\$251-450	4,788	338.90		
	Over \$450	3,350	771.68		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	2,447	326.52

### 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	Referee	2	2	1	0	1	2	1	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	42	7	1	0	4	2	5	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 Only	40	10	3	0	1	9	4	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	8	1	1	0	1	1	1	0
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	54	3	0	0	1	2	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	13,846	1,865	208	105	849	787	1,269	210
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	154	6	3	86	48	107	3
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	37	7	0	0	1	5	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	198	189	32	78	36	101	95	109
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	129,779	13,937	1,662	692	5,991	6,216	9,648	1,272
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	319,479	56,368	10,536	3,178	13,993	36,392	31,830	6,118
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	27	8	0	1	1	5	4	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,309	501	88	21	142	301	287	56
Acceleration Simulation Mode (ASM)	Partial	Referee	6	8	1	6	0	3	5	7
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,333	2,871	468	166	818	1,729	1,649	309
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,991	1,607	282	112	397	1,011	863	210
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,193	209	36	18	70	113	129	40
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	248	19	1	63	172	81	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	36	27	5	11	6	15	17	15
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	14,538	1,505	223	90	663	705	1,024	173
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,468	1,645	314	96	562	992	1,006	188

	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 Basic Area	4,918	938	240	67	223	431	587	128
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	198	22	7	1	8	9	15	5
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	2,865	456	89	26	139	195	301	54
Two Speed Idle (TSI)	Basic	Government Fleet	0	13	1	1	7	1	13	0
Two Speed Idle (TSI)	Basic	Referee	29	34	5	14	9	10	27	19
Two Speed Idle (TSI)	Basic	Test and Repair	39,624	5,047	1,005	316	1,512	2,066	3,458	632
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,696	224	41	9	83	76	155	23
Two Speed Idle (TSI)	Basic	Test Only	6,904	1,008	220	62	279	468	598	137
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	60	11	3	1	4	4	9	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,751	357	97	23	65	200	204	48
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	111	15	4	1	4	7	10	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,984	255	58	17	65	121	165	38
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	35	3	0	0	1	1	2	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	782	130	35	10	29	77	69	17
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	416	36	1	2	25	5	32	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	346	45	4	0	21	9	38	1
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,366	299	70	22	136	107	206	41
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	23	3	0	6	7	16	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	21	7	0	1	0	3	5	2
Two Speed Idle (TSI)	Enhanced	Referee	42	21	2	11	8	3	12	12
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,039	1,394	215	72	723	414	1,057	131
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	517	26	0	0	21	2	24	0
Two Speed Idle (TSI)	Enhanced	Test Only	24,908	2,261	419	104	1,083	827	1,522	202
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	32	5	1	0	3	2	4	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	191	27	6	2	9	12	17	5
Two Speed Idle (TSI)	Partial	Test and Repair	1,620	162	40	5	63	68	111	20
Two Speed Idle (TSI)	Partial	Test Only	734	77	21	3	25	30	47	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	311	57	9	3	25	17	46	7
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	864	100	26	7	37	40	75	13

	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	Gold Shield in Enhanced Area	484	46	13	4	12	22	26	6
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	7	1	0	3	3	4	0
Two Speed Idle (TSI)	Unknown Program	Referee	40	17	13	2	3	13	4	2
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,404	487	91	27	245	160	370	51
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	549	32	1	1	18	2	29	2
Two Speed Idle (TSI)	Unknown Program	Test Only	2,452	167	19	6	102	40	131	17
Unknown TestType	Enhanced	Referee	10	3	0	2	0	3	2	3