

# Executive Summary Report

## SMOG CHECK Statewide

August 2007

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	825,942	102,458	12.40%
Total	968,549	136,431	14.09%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	709,911	85.95%	116,031	14.05%
Total	812,029	83.84%	156,520	16.16%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	421,633	85.66%	70,566	14.34%
Total	486,687	84.33%	90,468	15.67%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	18,109	2.19%
All Emissions	58,861	7.13%
All Visual	11,362	1.38%
All Functional	60,785	7.36%
OBDII	30,783	3.73%
Overall	102,458	12.40%

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

	Initial Tests	Certificates Issued
Volunteers	239,801	213,545
Directed Vehicles	252,398	208,088
Total	492,199	421,633

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	42,004	36,124
Directed Vehicles	1,269	840
Total	43,273	36,964

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,596	288	545	41	0	5,470
Test Only	2,104	43	22	1	0	2,170
Basic Area Dealer	0	1	119	0	0	120
Gold Shield	405	27	62	75	0	569
Business Fleet	5	1	0	0	0	6
Permanent Fleet Registered	35	1	5	0	0	41
Referee	35	0	6	1	0	42
Government Fleet	242	9	36	2	0	289
Unknown Type	1	0	0	0	0	1
Total	7,423	370	795	120	0	8,708

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	653,323	82,857	12.68%	14,343	2.20%
Partially Enhanced	39,096	5,488	14.04%	958	2.45%
Basic	77,098	8,544	11.08%	1,834	2.38%
Change of Ownership	6,193	829	13.39%	239	3.86%
No Program	4	0	0.00%	0	0.00%
Unknown Program	50,228	4,740	9.44%	735	1.46%
Total Program Area	825,942	102,458	12.40%	18,109	2.19%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	492,199	68,925	14.00%	12,997	2.64%
Regular	282,285	26,924	9.54%	3,981	1.41%
Basic Area Dealer	5,236	272	5.19%	37	0.71%
Gold Shield in Enhanced Area	30,115	3,878	12.88%	548	1.82%
Gold Shield in Basic Area	8,527	1,267	14.86%	283	3.32%
Gold Shield in COO Area	4,631	592	12.78%	156	3.37%
Business Fleet	16	0	0.00%	0	0.00%
Permanent Fleet Registered	62	7	11.29%	1	1.61%
Referee	826	391	47.34%	90	10.90%
Government Fleet	2,043	202	9.89%	16	0.78%
Unknown Privilege	2	0	0.00%	0	0.00%
Total	825,942	102,458	12.40%	18,109	2.19%

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-1966	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1967	2	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-1974	2	1	50.00%	50.00%	0.00%	50.00%	50.00%	0.00%
MY-1975	13	3	23.08%	15.38%	15.38%	7.69%	0.00%	0.00%
MY-1976	1,627	470	28.89%	22.00%	10.26%	15.80%	8.60%	0.00%
MY-1977	2,241	597	26.64%	19.81%	9.82%	13.65%	7.10%	0.00%
MY-1978	2,530	701	27.71%	22.09%	10.95%	13.75%	7.67%	0.00%
MY-1979	2,832	851	30.05%	24.08%	12.18%	15.01%	9.22%	0.00%
MY-1980	1,728	507	29.34%	23.78%	12.15%	14.35%	8.39%	0.00%
MY-1981	1,994	558	27.98%	23.22%	10.33%	13.74%	8.22%	0.00%
MY-1982	2,299	649	28.23%	23.92%	11.83%	14.44%	6.92%	0.00%
MY-1983	3,469	1,031	29.72%	24.70%	11.88%	14.76%	7.58%	0.00%
MY-1984	5,995	1,843	30.74%	25.54%	12.81%	15.43%	6.94%	0.00%
MY-1985	8,351	2,433	29.13%	24.22%	11.48%	14.23%	6.14%	0.00%
MY-1986	12,881	3,199	24.84%	19.90%	8.69%	12.30%	4.81%	0.00%
MY-1987	14,266	3,801	26.64%	22.14%	9.16%	12.09%	4.31%	0.00%
MY-1988	17,608	4,204	23.88%	19.44%	7.37%	11.45%	3.62%	0.00%
MY-1989	23,405	4,934	21.08%	16.60%	5.81%	10.12%	3.04%	0.00%
MY-1990	26,725	5,201	19.46%	15.41%	5.34%	9.15%	2.47%	0.00%
MY-1991	30,473	5,376	17.64%	13.86%	4.52%	8.02%	2.05%	0.00%
MY-1992	29,929	4,971	16.61%	13.04%	4.07%	7.07%	1.92%	0.00%
MY-1993	37,485	6,645	17.73%	14.49%	3.37%	6.73%	1.67%	0.00%
MY-1994	37,950	5,741	15.13%	11.80%	2.52%	5.87%	1.68%	0.00%
MY-1995	60,550	7,053	11.65%	8.54%	1.70%	4.49%	1.26%	0.00%
MY-1996	37,772	6,522	17.27%	7.04%	1.23%	12.50%	1.12%	11.47%
MY-1997	72,508	8,661	11.94%	4.22%	0.71%	8.95%	0.74%	8.08%
MY-1998	48,761	5,443	11.16%	3.43%	0.57%	8.70%	0.70%	7.97%
MY-1999	92,365	6,520	7.06%	1.60%	0.29%	5.74%	0.44%	5.25%
MY-2000	40,517	3,228	7.97%	1.39%	0.30%	6.92%	0.47%	6.26%
MY-2001	138,908	8,661	6.24%	0.64%	0.14%	5.68%	0.31%	5.25%
MY-2002	20,608	1,010	4.90%	0.69%	0.14%	4.23%	0.34%	3.70%
MY-2003	22,463	747	3.33%	0.43%	0.14%	3.00%	0.12%	2.53%
MY-2004	9,160	338	3.69%	0.21%	0.07%	3.31%	0.25%	2.71%
MY-2005	6,915	243	3.51%	0.26%	0.04%	3.11%	0.25%	2.65%
MY-2006	6,452	195	3.02%	0.15%	0.02%	2.77%	0.11%	2.46%
MY-2007	4,998	118	2.36%	0.18%	0.10%	2.20%	0.16%	2.04%
MY-2008	158	2	1.27%	0.00%	0.00%	1.27%	0.00%	1.27%
All Model Years	825,942	102,458	12.40%	7.13%	2.19%	7.36%	1.38%	3.73%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	701
Certificate of Non Compliance	0
Parts Cost	102
Hardship Extensions	162
Exempt Vehicle	40
Exempted by Directive	117
Parts Exemption	2
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,124</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,182
Stations Locked-Out at Least Once	395
Stations Conducted at Least One Test	7,526

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,524	6,048
EA	Gas Endorsement	15	0
EB	Both Endorsement	58	0
EB	Gas Endorsement	556	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	443,892	48.20	45,929	48.66	489,821	48.24
Test and Repair	192,527	46.50	87,434	44.24	279,961	45.79
Test and Repair Dealer	14	77.71	5,228	47.50	5,242	47.58
Referee	486	30.00	175	30.00	661	30.00
Gold Shield in Enhanced Area	22,584	46.57	7,798	41.94	30,382	45.38
Gold Shield in Basic Area	63	64.71	8,592	34.13	8,655	34.35
Gold Shield in COO Area	24	70.75	4,681	49.19	4,705	49.30

### 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	7,391	22.14	<b>24,596</b>	<b>211.80</b>
	\$51-150	6,225	101.13		
	\$151-250	4,006	199.22		
	\$251-450	4,219	335.17		
	Over \$450	2,755	800.06		
CAP Repairs	\$1-50	184	25.61	<b>3,444</b>	<b>335.68</b>
	\$51-150	360	105.21		
	\$151-250	558	201.83		
	\$251-450	1,299	346.80		
	Over \$450	1,043	527.69		
Total Repairs	\$1-50	6,630	22.40	<b>25,480</b>	<b>249.82</b>
	\$51-150	5,337	101.35		
	\$151-250	4,204	199.79		
	\$251-450	5,262	338.95		
	Over \$450	4,047	754.31		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	3,128	335.68

### 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	6	3	0	0	1	2	1	0
Acceleration Simulation Mode (ASM)	Basic	Referee	2	3	0	1	1	1	1	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)	Basic	Test and Repair	69	16	4	0	5	11	10	3
Acceleration Simulation Mode (ASM)	Basic	Test Only	57	9	0	0	4	7	4	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	2	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	9	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	50	6	2	0	2	5	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	15,292	2,284	243	130	1,051	925	1,583	258
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	98	5	0	39	46	53	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	240	268	60	109	57	153	128	145
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	135,343	14,288	1,688	716	6,216	6,477	9,708	1,311
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	355,649	61,284	11,553	3,344	15,241	39,797	34,054	6,721
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	5	2	0	0	2	1	2	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,283	492	83	22	136	310	285	52
Acceleration Simulation Mode (ASM)	Partial	Referee	15	20	3	10	7	10	12	13
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,680	3,077	508	181	796	1,885	1,687	368
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,495	1,613	299	104	401	1,024	852	199
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,402	218	29	21	80	113	137	40
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	68	3	0	21	43	29	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	49	29	9	11	4	17	19	20
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	15,453	1,569	204	78	665	749	1,050	170
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	14,127	1,829	319	116	669	1,058	1,090	211

	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	6,166	1,132	267	77	246	532	690	176
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	218	31	5	6	5	21	17	7
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,190	491	111	29	135	208	318	84
Two Speed Idle (TSI)	Basic	Government Fleet	0	6	1	1	3	1	4	1
Two Speed Idle (TSI)	Basic	Referee	31	31	7	14	4	15	22	18
Two Speed Idle (TSI)	Basic	Test and Repair	45,035	5,514	1,169	292	1,590	2,384	3,593	642
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,798	228	33	17	76	71	151	27
Two Speed Idle (TSI)	Basic	Test Only	7,703	1,080	237	61	299	511	614	154
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	40	11	0	2	3	3	8	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	2,178	376	113	30	74	220	208	55
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	94	28	9	3	7	11	19	4
Two Speed Idle (TSI)	Change of Ownership	Referee	4	4	1	2	0	1	4	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,995	259	80	23	82	133	158	42
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	37	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	875	147	35	7	41	77	87	20
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	436	44	6	1	28	7	36	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	442	44	4	3	24	10	34	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,768	285	58	22	126	115	185	40
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	20	5	2	4	8	10	3
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	32	5	1	0	0	3	4	0
Two Speed Idle (TSI)	Enhanced	Referee	48	25	3	15	9	5	15	19
Two Speed Idle (TSI)	Enhanced	Test and Repair	22,238	1,502	208	77	787	436	1,143	149
Two Speed Idle (TSI)	Enhanced	Test Only	29,631	2,682	507	126	1,249	986	1,802	247
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	53	5	0	0	4	2	4	0
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	32	5	1	0	1	2	3	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	210	17	4	1	6	8	11	1
Two Speed Idle (TSI)	Partial	Referee	6	2	1	1	0	1	1	2
Two Speed Idle (TSI)	Partial	Test and Repair	1,813	170	41	8	66	71	112	14
Two Speed Idle (TSI)	Partial	Test Only	741	80	18	4	28	35	49	12

	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 Basic Area	434	67	8	5	28	22	51	11
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,081	133	33	12	34	68	84	20
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	562	60	11	2	30	19	46	8
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	2	0	5	3	6	0
Two Speed Idle (TSI)	Unknown Program	Referee	30	9	6	1	2	8	3	3
Two Speed Idle (TSI)	Unknown Program	Test and Repair	6,368	527	79	25	251	162	397	52
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	512	23	3	2	15	6	18	3
Two Speed Idle (TSI)	Unknown Program	Test Only	3,343	200	29	10	105	59	144	20