

# Executive Summary Report

## SMOG CHECK Statewide

May 2007

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	825,135	99,793	12.09%
Total	966,155	133,183	13.78%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	708,791	85.90%	116,344	14.10%
Total	809,913	83.83%	156,242	16.17%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	412,808	85.78%	68,445	14.22%
Total	476,527	84.47%	87,593	15.53%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	17,539	2.13%
All Emissions	56,725	6.87%
All Visual	11,379	1.38%
All Functional	59,841	7.25%
OBDII	29,776	3.61%
Overall	99,793	12.09%

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

	Initial Tests	Certificates Issued
Volunteers	235,012	209,666
Directed Vehicles	246,241	203,142
Total	481,253	412,808

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	41,701	35,940
Directed Vehicles	180	12
Total	41,881	35,952

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,662	287	534	42	0	5,525
Test Only	2,071	40	19	1	0	2,131
Basic Area Dealer	0	1	120	0	0	121
Gold Shield	413	26	62	74	0	575
Business Fleet	5	1	0	0	0	6
Permanent Fleet Registered	35	1	5	0	0	41
Referee	34	0	6	1	0	41
Government Fleet	242	9	36	2	0	289
Unknown Type	1	0	0	0	0	1
Total	7,463	365	782	120	0	8,730

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	655,723	80,651	12.30%	13,764	2.10%
Partially Enhanced	39,343	5,520	14.03%	964	2.45%
Basic	76,512	8,295	10.84%	1,825	2.39%
Change of Ownership	5,881	785	13.35%	215	3.66%
No Program	6	0	0.00%	0	0.00%
Unknown Program	47,670	4,542	9.53%	771	1.62%
Total Program Area	825,135	99,793	12.09%	17,539	2.13%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	481,253	66,832	13.89%	12,422	2.58%
Regular	290,984	26,658	9.16%	4,032	1.39%
Basic Area Dealer	5,783	276	4.77%	29	0.50%
Gold Shield in Enhanced Area	29,702	3,544	11.93%	522	1.76%
Gold Shield in Basic Area	7,840	1,149	14.66%	257	3.28%
Gold Shield in COO Area	4,339	550	12.68%	150	3.46%
Business Fleet	30	2	6.67%	0	0.00%
Permanent Fleet Registered	57	5	8.77%	2	3.51%
Referee	900	403	44.78%	80	8.89%
Government Fleet	4,245	374	8.81%	45	1.06%
Unknown Privilege	2	0	0.00%	0	0.00%
Total	825,135	99,793	12.09%	17,539	2.13%

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-1965	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1966	2	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-1971	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1972	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1974	8	1	12.50%	12.50%	0.00%	12.50%	12.50%	0.00%
MY-1975	16	6	37.50%	37.50%	18.75%	25.00%	18.75%	0.00%
MY-1976	1,708	424	24.82%	18.33%	8.90%	12.53%	8.55%	0.00%
MY-1977	2,347	577	24.58%	18.62%	8.44%	13.46%	8.01%	0.00%
MY-1978	2,739	676	24.68%	18.11%	8.58%	12.85%	7.67%	0.00%
MY-1979	2,786	829	29.76%	23.69%	12.02%	14.72%	9.08%	0.00%
MY-1980	1,705	440	25.81%	20.53%	10.03%	13.37%	7.39%	0.00%
MY-1981	2,184	636	29.12%	23.81%	11.45%	14.79%	7.97%	0.00%
MY-1982	2,576	722	28.03%	22.63%	11.06%	14.01%	8.04%	0.00%
MY-1983	3,790	1,090	28.76%	23.69%	11.00%	14.27%	7.47%	0.00%
MY-1984	6,685	1,963	29.36%	23.74%	12.46%	15.05%	7.40%	0.00%
MY-1985	9,034	2,556	28.29%	23.20%	10.69%	14.49%	5.88%	0.00%
MY-1986	12,454	3,160	25.37%	19.95%	8.61%	13.07%	4.71%	0.00%
MY-1987	14,553	3,942	27.09%	22.22%	8.78%	12.90%	4.54%	0.00%
MY-1988	17,990	4,173	23.20%	18.19%	7.09%	11.56%	3.79%	0.00%
MY-1989	23,469	4,827	20.57%	16.10%	5.87%	9.88%	2.96%	0.00%
MY-1990	26,940	5,054	18.76%	14.76%	5.01%	8.68%	2.33%	0.00%
MY-1991	30,730	5,323	17.32%	13.76%	4.55%	7.71%	1.89%	0.00%
MY-1992	31,360	4,908	15.65%	12.16%	3.70%	6.83%	1.70%	0.00%
MY-1993	35,918	6,239	17.37%	14.28%	3.19%	6.41%	1.75%	0.00%
MY-1994	39,161	5,646	14.42%	11.19%	2.40%	5.74%	1.62%	0.00%
MY-1995	58,372	6,723	11.52%	8.44%	1.70%	4.50%	1.24%	0.00%
MY-1996	34,715	6,075	17.50%	6.90%	1.15%	12.95%	1.10%	11.82%
MY-1997	72,005	8,380	11.64%	3.88%	0.64%	8.95%	0.73%	8.07%
MY-1998	49,899	5,310	10.64%	3.17%	0.52%	8.42%	0.65%	7.67%
MY-1999	97,877	6,511	6.65%	1.35%	0.24%	5.49%	0.47%	5.01%
MY-2000	41,110	3,337	8.12%	1.35%	0.30%	7.04%	0.49%	6.35%
MY-2001	134,779	7,698	5.71%	0.53%	0.13%	5.26%	0.30%	4.82%
MY-2002	19,857	928	4.67%	0.48%	0.10%	4.21%	0.24%	3.66%
MY-2003	23,105	805	3.48%	0.26%	0.06%	3.20%	0.13%	2.75%
MY-2004	8,475	324	3.82%	0.21%	0.02%	3.53%	0.19%	3.06%
MY-2005	6,309	220	3.49%	0.16%	0.03%	3.14%	0.29%	2.62%
MY-2006	6,913	195	2.82%	0.12%	0.06%	2.65%	0.13%	2.39%
MY-2007	3,534	94	2.66%	0.31%	0.23%	2.41%	0.11%	2.12%
MY-2008	25	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-2009	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	825,135	99,793	12.09%	6.87%	2.13%	7.25%	1.38%	3.61%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	761
Certificate of Non Compliance	0
Parts Cost	98
Hardship Extensions	134
Exempt Vehicle	59
Exempted by Directive	129
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,184</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,149
Stations Locked-Out at Least Once	534
Stations Conducted at Least One Test	7,581

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,557	6,026
EA	Gas Endorsement	16	0
EB	Both Endorsement	58	0
EB	Gas Endorsement	566	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	435,547	48.20	43,246	48.29	478,793	48.21
Test and Repair	201,299	46.88	87,052	44.51	288,351	46.17
Test and Repair Dealer	18	43.00	5,787	46.57	5,805	46.56
Referee	606	30.00	204	30.00	810	30.00
Gold Shield in Enhanced Area	22,181	47.01	7,760	41.62	29,941	45.61
Gold Shield in Basic Area	16	63.44	7,945	33.92	7,961	33.98
Gold Shield in COO Area	54	65.57	4,342	47.91	4,396	48.13

### 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	7,482	22.49	<b>24,988</b>	<b>208.21</b>
	\$51-150	6,516	101.10		
	\$151-250	4,093	199.11		
	\$251-450	4,184	336.69		
	Over \$450	2,713	793.21		
CAP Repairs	\$1-50	171	24.61	<b>3,664</b>	<b>341.56</b>
	\$51-150	362	107.54		
	\$151-250	598	203.52		
	\$251-450	1,446	347.91		
	Over \$450	1,087	536.84		
Total Repairs	\$1-50	6,702	22.79	<b>25,998</b>	<b>248.26</b>
	\$51-150	5,518	101.50		
	\$151-250	4,328	199.77		
	\$251-450	5,366	341.76		
	Over \$450	4,084	745.07		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	3,303	341.56

### 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	3	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	43	5	1	0	0	5	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 Only	31	5	0	0	0	3	2	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	11	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	3	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	23	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	15,354	1,933	216	106	952	783	1,345	199
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	101	4	1	47	35	68	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	290	274	47	117	47	154	135	156
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	144,082	14,290	1,687	754	6,217	6,362	9,841	1,366
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	351,418	59,464	10,981	3,422	14,634	38,118	33,468	6,819
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,293	486	78	28	138	291	264	58
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	5	1	0	0	4	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	10	20	4	9	7	12	14	13
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,767	3,069	517	190	773	1,860	1,690	366
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	8	3	1	0	0	3	1	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,458	1,637	285	107	432	986	913	212
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	1	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,263	211	34	16	77	118	129	25
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	231	33	1	47	172	74	2
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	49	24	5	9	9	12	17	13
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	14,971	1,516	210	96	605	732	992	183

	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 Only	12,254	1,643	325	109	585	926	1,024	210
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	5,688	1,035	229	75	257	459	685	141
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	207	24	7	1	5	12	15	5
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,138	488	105	38	136	206	310	88
Two Speed Idle (TSI)	Basic	Government Fleet	0	13	1	0	4	8	5	0
Two Speed Idle (TSI)	Basic	Referee	36	31	7	18	4	12	15	23
Two Speed Idle (TSI)	Basic	Test and Repair	45,118	5,382	1,209	304	1,537	2,369	3,535	637
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	4,149	208	26	11	72	73	139	26
Two Speed Idle (TSI)	Basic	Test Only	7,444	1,102	240	76	306	521	642	133
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	65	16	7	1	3	10	10	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,976	355	105	30	58	210	193	49
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	111	36	10	1	14	20	24	3
Two Speed Idle (TSI)	Change of Ownership	Referee	0	2	1	1	0	1	2	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,974	251	60	17	70	115	161	34
Two Speed Idle (TSI)	Change of Ownership	Test Only	806	120	32	11	22	66	65	20
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	412	42	8	2	15	15	31	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	416	35	4	2	16	7	30	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,781	306	69	20	112	134	192	50
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	20	6	0	10	9	12	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	18	4	2	0	0	2	3	3
Two Speed Idle (TSI)	Enhanced	Referee	56	33	5	13	16	9	18	16
Two Speed Idle (TSI)	Enhanced	Test and Repair	22,828	1,483	217	74	774	440	1,126	131
Two Speed Idle (TSI)	Enhanced	Test Only	28,037	2,632	518	100	1,217	999	1,770	218
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	218	27	6	2	11	12	18	3
Two Speed Idle (TSI)	Partial	Referee	2	2	1	0	1	1	2	0
Two Speed Idle (TSI)	Partial	Test and Repair	1,791	192	51	14	69	81	120	28
Two Speed Idle (TSI)	Partial	Test Only	795	66	20	5	17	38	25	9
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	357	52	13	5	12	25	29	7

	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 COO Area	1,027	126	33	14	41	60	85	24
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	486	55	4	0	27	17	44	4
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	0	0	2	2	2	0
Two Speed Idle (TSI)	Unknown Program	Referee	40	16	10	4	3	11	8	8
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,614	469	80	29	225	149	352	63
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	544	32	2	3	18	5	26	3
Two Speed Idle (TSI)	Unknown Program	Test Only	2,561	162	21	10	98	45	120	17