

# Executive Summary Report

## SMOG CHECK Statewide

August 2006

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	846,630	106,752	12.61%
Total	1,002,357	143,861	14.35%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	723,263	85.43%	123,367	14.57%
Total	834,274	83.23%	168,083	16.77%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	407,278	85.21%	70,711	14.79%
Total	474,449	83.79%	91,772	16.21%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	20,068	2.37%
All Emissions	64,472	7.62%
All Visual	11,584	1.37%
All Functional	61,509	7.27%
OBDII	27,697	3.27%
Overall	106,752	12.61%

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

	Initial Tests	Certificates Issued
Volunteers	234,589	206,960
Directed Vehicles	243,400	200,318
Total	477,989	407,278

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	44,846	38,312
Directed Vehicles	183	25
Total	45,029	38,337

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,829	284	521	43	0	5,677
Test Only	2,025	36	16	1	0	2,078
Basic Area Dealer	0	1	119	0	0	120
Gold Shield	431	28	65	71	0	595
Business Fleet	6	1	0	0	0	7
Permanent Fleet Registered	36	1	6	0	0	43
Referee	34	0	6	1	0	41
Government Fleet	240	8	36	2	0	286
Unknown Type	0	0	0	0	0	0
Total	7,601	359	769	118	0	8,847

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	669,674	86,512	12.92%	15,871	2.37%
Partially Enhanced	38,911	5,393	13.86%	1,036	2.66%
Basic	76,138	8,623	11.33%	2,003	2.63%
Change of Ownership	6,720	980	14.58%	279	4.15%
No Program	5	0	0.00%	0	0.00%
Unknown Program	55,182	5,244	9.50%	879	1.59%
Total Program Area	846,630	106,752	12.61%	20,068	2.37%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	477,989	68,915	14.42%	14,095	2.95%
Regular	314,587	30,951	9.84%	4,739	1.51%
Basic Area Dealer	6,006	314	5.23%	50	0.83%
Gold Shield in Enhanced Area	32,878	4,257	12.95%	651	1.98%
Gold Shield in Basic Area	7,332	1,076	14.68%	249	3.40%
Gold Shield in COO Area	4,819	642	13.32%	185	3.84%
Business Fleet	37	1	2.70%	0	0.00%
Permanent Fleet Registered	231	24	10.39%	3	1.30%
Referee	957	425	44.41%	81	8.46%
Government Fleet	1,792	145	8.09%	15	0.84%
Unknown Privilege	2	2	100.00%	0	0.00%
Total	846,630	106,752	12.61%	20,068	2.37%

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-1955	3	1	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1960	1	1	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1966	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1969	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1970	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1972	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
MY-1974	10	1	10.00%	10.00%	0.00%	10.00%	10.00%	0.00%
MY-1975	22	8	36.36%	31.82%	13.64%	27.27%	13.64%	0.00%
MY-1976	1,800	502	27.89%	22.17%	10.83%	12.83%	6.78%	0.00%
MY-1977	2,601	647	24.88%	18.65%	8.57%	13.57%	6.61%	0.00%
MY-1978	2,963	779	26.29%	19.98%	9.58%	13.09%	8.10%	0.00%
MY-1979	3,329	958	28.78%	22.71%	10.78%	14.33%	8.56%	0.00%
MY-1980	2,147	586	27.29%	21.98%	11.09%	14.25%	7.69%	0.00%
MY-1981	2,610	808	30.96%	25.71%	11.69%	15.02%	8.47%	0.00%
MY-1982	2,927	877	29.96%	24.94%	11.62%	16.02%	7.62%	0.00%
MY-1983	4,299	1,213	28.22%	23.24%	10.10%	13.72%	7.14%	0.00%
MY-1984	7,600	2,332	30.68%	25.30%	12.57%	15.89%	6.95%	0.00%
MY-1985	10,457	2,933	28.05%	22.95%	10.57%	13.86%	6.27%	0.00%
MY-1986	16,009	4,160	25.99%	20.76%	9.27%	13.53%	4.65%	0.00%
MY-1987	17,803	4,912	27.59%	22.66%	9.42%	13.51%	4.37%	0.00%
MY-1988	21,767	5,230	24.03%	19.50%	7.29%	11.63%	3.43%	0.00%
MY-1989	28,269	5,844	20.67%	16.19%	5.73%	10.19%	2.65%	0.00%
MY-1990	31,469	5,923	18.82%	14.97%	5.02%	8.52%	2.02%	0.00%
MY-1991	35,175	6,012	17.09%	13.31%	4.22%	7.64%	1.69%	0.00%
MY-1992	34,873	5,443	15.61%	12.21%	3.87%	6.54%	1.57%	0.00%
MY-1993	40,790	6,974	17.10%	13.92%	3.13%	6.40%	1.53%	0.00%
MY-1994	51,847	6,459	12.46%	9.65%	1.87%	4.68%	1.27%	0.00%
MY-1995	46,205	5,767	12.48%	9.28%	1.90%	4.91%	1.30%	0.00%
MY-1996	64,290	9,145	14.22%	5.44%	0.77%	10.41%	0.78%	9.37%
MY-1997	49,301	6,287	12.75%	4.41%	0.79%	9.78%	0.69%	8.86%
MY-1998	90,062	7,428	8.25%	2.45%	0.39%	6.36%	0.41%	5.78%
MY-1999	51,342	3,982	7.76%	1.64%	0.28%	6.39%	0.44%	5.84%
MY-2000	144,641	7,924	5.48%	0.84%	0.19%	4.75%	0.28%	4.30%
MY-2001	23,791	1,333	5.60%	0.54%	0.10%	5.11%	0.28%	4.42%
MY-2002	24,697	1,101	4.46%	0.44%	0.11%	4.05%	0.13%	3.52%
MY-2003	11,270	371	3.29%	0.20%	0.07%	3.01%	0.18%	2.53%
MY-2004	7,889	274	3.47%	0.28%	0.05%	3.17%	0.13%	2.69%
MY-2005	7,516	284	3.78%	0.09%	0.04%	3.58%	0.15%	3.09%
MY-2006	6,550	226	3.45%	0.11%	0.06%	3.33%	0.02%	3.10%
MY-2007	300	25	8.33%	0.33%	0.00%	8.00%	0.00%	8.00%
All Model Years	846,630	106,752	12.61%	7.62%	2.37%	7.27%	1.37%	3.27%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	839
Certificate of Non Compliance	2
Parts Cost	97
Hardship Extensions	98
Exempt Vehicle	69
Exempted by Directive	185
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,293</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,215
Stations Locked-Out at Least Once	328
Stations Conducted at Least One Test	7,632

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,855	6,249
EA	Gas Endorsement	19	0
EB	Both Endorsement	53	0
EB	Gas Endorsement	575	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	432,236	48.62	40,287	48.63	472,523	48.62
Test and Repair	223,207	46.69	87,382	43.93	310,589	45.91
Test and Repair Dealer	23	37.65	5,997	48.53	6,020	48.49
Referee	676	30.00	173	30.00	849	30.00
Gold Shield in Enhanced Area	25,574	46.52	7,534	43.30	33,108	45.79
Gold Shield in Basic Area	10	71.20	7,438	37.47	7,448	37.51
Gold Shield in COO Area	195	48.57	4,687	47.80	4,882	47.83

**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	8,416	22.58	<b>27,936</b>	<b>203.51</b>
	\$51-150	7,344	99.71		
	\$151-250	4,644	199.03		
	\$251-450	4,654	336.28		
	Over \$450	2,878	790.05		
CAP Repairs	\$1-50	221	28.14	<b>3,606</b>	<b>320.14</b>
	\$51-150	467	107.04		
	\$151-250	682	203.02		
	\$251-450	1,326	347.37		
	Over \$450	910	548.51		
Total Repairs	\$1-50	7,684	22.89	<b>29,030</b>	<b>235.61</b>
	\$51-150	6,478	99.89		
	\$151-250	4,990	199.64		
	\$251-450	5,815	339.18		
	Over \$450	4,063	750.26		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	3,224	320.14

**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	11	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	51	6	1	0	1	3	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	51	7	1	0	1	4	3	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	6	3	0	0	0	3	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	22	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	6	1	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	152	13	3	1	4	7	9	2
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	17,545	2,481	241	129	1,036	1,176	1,587	242
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	67	6	0	35	27	40	0
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	69	10	0	0	6	2	8	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	326	300	47	122	67	154	160	158
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	159,031	17,749	2,171	886	6,655	8,891	11,349	1,645
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	346,401	61,544	12,532	3,500	12,382	41,929	33,131	6,760
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,506	537	108	32	134	351	277	66
Acceleration Simulation Mode (ASM)	Partial	Referee	10	18	1	13	4	5	10	14
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,204	2,933	541	161	665	1,872	1,632	298
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,360	1,619	309	118	372	1,042	855	214
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,652	276	50	13	83	154	153	37
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	54	5	1	16	34	22	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	68	31	8	7	10	19	18	14
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	18,212	1,857	237	106	763	923	1,187	181
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	14,088	1,943	373	98	670	1,154	1,176	214

	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	Unknown Privilege	0	2	0	1	1	1	1	1
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,897	931	223	75	192	427	584	134
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	342	41	12	1	11	26	19	4
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	2,949	524	137	39	132	245	330	77
Two Speed Idle (TSI)	Basic	Government Fleet	0	4	1	0	2	2	2	0
Two Speed Idle (TSI)	Basic	Referee	36	31	8	16	2	13	13	20
Two Speed Idle (TSI)	Basic	Test and Repair	45,336	5,765	1,301	354	1,436	2,620	3,738	665
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	4,067	233	42	6	77	94	148	22
Two Speed Idle (TSI)	Basic	Test Only	7,133	1,079	277	58	267	532	606	138
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	142	29	5	1	3	18	15	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,947	416	123	28	65	233	237	54
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	144	37	11	1	4	21	18	3
Two Speed Idle (TSI)	Change of Ownership	Referee	3	4	1	1	1	2	4	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	2,406	340	89	26	85	164	227	52
Two Speed Idle (TSI)	Change of Ownership	Test Only	834	148	50	4	29	83	90	11
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	490	42	4	3	22	10	33	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	413	48	5	2	24	16	33	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,546	289	74	16	111	125	189	36
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	11	2	0	4	5	6	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	83	14	3	3	0	6	5	5
Two Speed Idle (TSI)	Enhanced	Referee	38	29	10	11	8	12	16	19
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,170	1,554	269	70	721	542	1,110	137
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	602	33	1	1	24	1	32	1
Two Speed Idle (TSI)	Enhanced	Test Only	25,402	2,326	503	108	987	981	1,477	185
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	50	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	196	39	12	5	6	23	16	7
Two Speed Idle (TSI)	Partial	Referee	6	4	4	0	0	4	0	0
Two Speed Idle (TSI)	Partial	Test and Repair	1,797	170	47	17	36	90	100	32

	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	Test and Repair Dealer	67	3	0	0	2	1	2	0
Two Speed Idle (TSI)	Partial	Test Only	750	65	13	4	26	26	42	10
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	484	72	16	4	26	36	48	7
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,160	123	42	4	28	68	74	17
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	632	72	18	2	29	33	51	6
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	7	1	0	1	5	2	0
Two Speed Idle (TSI)	Unknown Program	Referee	25	8	2	3	2	2	5	4
Two Speed Idle (TSI)	Unknown Program	Test and Repair	7,190	574	83	26	297	184	442	50
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	678	40	7	2	27	8	32	3
Two Speed Idle (TSI)	Unknown Program	Test Only	3,248	184	37	15	98	59	129	23