

# Executive Summary Report

## SMOG CHECK Statewide

July 2007

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	800,554	98,445	12.30%
Total	935,175	130,668	13.97%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	688,904	86.05%	111,650	13.95%
Total	785,192	83.96%	149,983	16.04%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	409,441	85.66%	68,534	14.34%
Total	471,049	84.32%	87,573	15.68%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	17,369	2.17%
All Emissions	56,856	7.10%
All Visual	10,909	1.36%
All Functional	58,138	7.26%
OBDII	29,119	3.64%
Overall	98,445	12.30%

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

	Initial Tests	Certificates Issued
Volunteers	232,422	207,337
Directed Vehicles	245,553	202,104
Total	477,975	409,441

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	40,587	35,043
Directed Vehicles	189	19
Total	40,776	35,062

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,620	288	542	41	0	5,491
Test Only	2,106	42	19	1	0	2,168
Basic Area Dealer	0	1	118	0	0	119
Gold Shield	407	27	64	74	0	572
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	7,451	369	790	119	0	8,729

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	636,468	79,980	12.57%	13,789	2.17%
Partially Enhanced	37,526	5,384	14.35%	955	2.54%
Basic	74,114	8,005	10.80%	1,734	2.34%
Change of Ownership	5,720	779	13.62%	221	3.86%
No Program	2	0	0.00%	0	0.00%
Unknown Program	46,724	4,297	9.20%	670	1.43%
Total Program Area	800,554	98,445	12.30%	17,369	2.17%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	477,975	67,002	14.02%	12,502	2.62%
Regular	273,553	25,485	9.32%	3,788	1.38%
Basic Area Dealer	5,291	244	4.61%	38	0.72%
Gold Shield in Enhanced Area	28,332	3,436	12.13%	519	1.83%
Gold Shield in Basic Area	8,086	1,185	14.65%	276	3.41%
Gold Shield in COO Area	4,358	585	13.42%	164	3.76%
Business Fleet	16	0	0.00%	0	0.00%
Permanent Fleet Registered	77	7	9.09%	3	3.90%
Referee	765	341	44.58%	70	9.15%
Government Fleet	2,098	160	7.63%	9	0.43%
Unknown Privilege	3	0	0.00%	0	0.00%
Total	800,554	98,445	12.30%	17,369	2.17%

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-1953	1	1	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1965	1	1	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1968	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
MY-1970	3	1	33.33%	0.00%	0.00%	33.33%	33.33%	0.00%
MY-1972	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	19	3	15.79%	10.53%	0.00%	10.53%	5.26%	0.00%
MY-1976	1,442	380	26.35%	20.53%	10.54%	13.87%	8.88%	0.00%
MY-1977	2,246	591	26.31%	19.41%	9.57%	12.56%	8.06%	0.00%
MY-1978	2,548	654	25.67%	19.35%	8.95%	13.30%	7.18%	0.00%
MY-1979	2,729	752	27.56%	22.10%	10.85%	13.08%	7.81%	0.00%
MY-1980	1,660	460	27.71%	22.47%	11.51%	13.73%	7.71%	0.00%
MY-1981	2,075	635	30.60%	25.40%	11.81%	15.81%	8.05%	0.00%
MY-1982	2,383	719	30.17%	24.42%	11.46%	14.90%	8.06%	0.00%
MY-1983	3,536	946	26.75%	22.17%	10.63%	13.46%	6.56%	0.00%
MY-1984	6,104	1,849	30.29%	25.34%	12.61%	14.25%	7.37%	0.00%
MY-1985	8,361	2,372	28.37%	23.25%	10.91%	13.83%	5.81%	0.00%
MY-1986	11,937	3,106	26.02%	20.83%	9.31%	12.98%	5.03%	0.00%
MY-1987	13,751	3,788	27.55%	23.05%	9.51%	12.85%	4.59%	0.00%
MY-1988	17,312	3,958	22.86%	18.55%	7.05%	11.06%	3.49%	0.00%
MY-1989	22,546	4,830	21.42%	16.66%	5.84%	10.09%	3.09%	0.00%
MY-1990	26,354	5,180	19.66%	15.59%	5.29%	8.98%	2.40%	0.00%
MY-1991	30,136	5,303	17.60%	13.80%	4.42%	7.85%	2.01%	0.00%
MY-1992	29,772	4,881	16.39%	12.70%	3.96%	7.28%	1.82%	0.00%
MY-1993	35,942	6,398	17.80%	14.71%	3.34%	6.53%	1.69%	0.00%
MY-1994	36,471	5,454	14.95%	11.80%	2.52%	5.65%	1.63%	0.00%
MY-1995	57,800	6,684	11.56%	8.50%	1.73%	4.67%	1.20%	0.00%
MY-1996	35,506	5,994	16.88%	6.92%	1.14%	12.30%	1.04%	11.13%
MY-1997	70,730	8,417	11.90%	4.22%	0.67%	8.95%	0.72%	8.08%
MY-1998	47,760	5,296	11.09%	3.20%	0.53%	8.73%	0.71%	7.97%
MY-1999	92,464	6,351	6.87%	1.62%	0.27%	5.57%	0.43%	5.12%
MY-2000	39,466	3,081	7.81%	1.45%	0.29%	6.64%	0.44%	5.98%
MY-2001	133,353	7,956	5.97%	0.62%	0.14%	5.41%	0.33%	5.00%
MY-2002	19,377	819	4.23%	0.53%	0.11%	3.73%	0.25%	3.32%
MY-2003	21,396	726	3.39%	0.33%	0.06%	3.07%	0.14%	2.60%
MY-2004	8,525	313	3.67%	0.13%	0.07%	3.47%	0.18%	2.82%
MY-2005	6,549	240	3.66%	0.26%	0.09%	3.41%	0.08%	2.93%
MY-2006	6,118	185	3.02%	0.20%	0.08%	2.75%	0.16%	2.53%
MY-2007	4,089	114	2.79%	0.22%	0.02%	2.59%	0.12%	2.30%
MY-2008	89	6	6.74%	0.00%	0.00%	6.74%	0.00%	6.74%
All Model Years	800,554	98,445	12.30%	7.10%	2.17%	7.26%	1.36%	3.64%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	684
Certificate of Non Compliance	2
Parts Cost	94
Hardship Extensions	139
Exempt Vehicle	43
Exempted by Directive	114
Parts Exemption	4
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,080</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,199
Stations Locked-Out at Least Once	458
Stations Conducted at Least One Test	7,530

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,475	5,860
EA	Gas Endorsement	15	0
EB	Both Endorsement	64	0
EB	Gas Endorsement	546	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	431,251	48.19	43,348	48.57	474,599	48.22
Test and Repair	187,694	46.60	83,530	44.51	271,224	45.96
Test and Repair Dealer	13	76.00	5,289	46.77	5,302	46.84
Referee	434	30.00	167	30.00	601	30.00
Gold Shield in Enhanced Area	20,830	45.97	7,705	40.97	28,535	44.62
Gold Shield in Basic Area	72	63.04	8,126	34.56	8,198	34.81
Gold Shield in COO Area	39	75.51	4,388	48.12	4,427	48.36

**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	7,122	22.20	<b>22,939</b>	<b>206.70</b>
	\$51-150	5,778	101.06		
	\$151-250	3,691	199.05		
	\$251-450	3,918	335.19		
	Over \$450	2,430	803.10		
CAP Repairs	\$1-50	167	27.32	<b>3,258</b>	<b>336.52</b>
	\$51-150	357	103.58		
	\$151-250	518	203.18		
	\$251-450	1,217	348.99		
	Over \$450	999	525.40		
Total Repairs	\$1-50	6,382	22.41	<b>23,806</b>	<b>245.23</b>
	\$51-150	4,986	101.28		
	\$151-250	3,857	199.46		
	\$251-450	4,936	339.69		
	Over \$450	3,645	752.79		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	2,924	336.52

**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	0	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	55	3	0	0	0	3	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	46	7	0	1	1	5	5	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	4	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	57	8	0	1	2	3	6	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	30	3	0	1	0	3	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	14,291	1,824	197	96	883	739	1,261	178
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	75	2	1	36	29	46	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	233	219	46	94	37	124	111	118
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	133,318	13,595	1,579	650	5,900	6,100	9,289	1,180
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	347,477	59,787	11,120	3,387	14,565	38,979	33,033	6,642
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	6	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,212	495	84	28	138	310	266	60
Acceleration Simulation Mode (ASM)	Partial	Referee	11	12	4	3	4	7	6	5
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,769	2,985	509	177	791	1,814	1,639	345
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	7	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,075	1,594	283	94	412	1,006	833	197
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,311	220	26	16	87	111	150	31
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	64	3	0	22	40	24	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	52	32	4	16	10	13	21	19
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	14,470	1,409	190	93	584	673	921	144

	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	12,880	1,619	282	115	589	933	1,002	199
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	5,819	1,082	259	69	230	477	659	160
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	227	35	11	7	7	16	25	7
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,170	453	115	28	126	203	290	79
Two Speed Idle (TSI)	Basic	Government Fleet	0	4	1	0	3	1	3	0
Two Speed Idle (TSI)	Basic	Referee	32	38	8	17	10	13	28	22
Two Speed Idle (TSI)	Basic	Test and Repair	43,562	5,157	1,079	302	1,419	2,244	3,346	649
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,813	198	35	9	65	87	117	22
Two Speed Idle (TSI)	Basic	Test Only	7,371	1,026	225	74	303	463	605	151
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	42	7	2	1	3	4	5	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,885	379	120	23	78	216	216	50
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	105	23	6	3	4	9	15	5
Two Speed Idle (TSI)	Change of Ownership	Referee	6	5	0	3	0	1	1	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,884	246	59	18	67	112	162	32
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	50	5	0	2	2	1	4	2
Two Speed Idle (TSI)	Change of Ownership	Test Only	847	113	34	7	26	65	62	13
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	417	41	8	3	21	10	33	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	433	45	5	3	21	13	35	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,702	317	69	16	146	120	204	37
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	14	3	1	4	8	5	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	46	3	2	0	0	3	1	0
Two Speed Idle (TSI)	Enhanced	Referee	41	26	5	8	11	9	18	13
Two Speed Idle (TSI)	Enhanced	Test and Repair	21,339	1,440	249	75	712	461	1,069	150
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	482	18	1	1	11	2	15	2
Two Speed Idle (TSI)	Enhanced	Test Only	28,042	2,565	503	102	1,234	987	1,714	207
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	42	7	1	1	2	3	6	3
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	37	6	1	0	4	2	4	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	231	34	12	2	13	16	22	4

	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	1,757	156	40	6	48	77	91	21
Two Speed Idle (TSI)	Partial	Test Only	770	88	21	11	33	32	59	18
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	445	39	6	4	21	9	32	7
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,076	116	27	11	32	58	71	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	518	70	10	6	32	21	50	12
Two Speed Idle (TSI)	Unknown Program	Permanent Fleet Registered	5	3	1	0	0	1	2	1
Two Speed Idle (TSI)	Unknown Program	Referee	26	7	2	2	1	2	3	4
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,806	493	83	32	239	152	377	50
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	514	20	2	0	14	3	18	0
Two Speed Idle (TSI)	Unknown Program	Test Only	2,927	203	34	15	113	58	149	27